

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P622747

Luminaire Tested: **PRV-M-PA6C-730-U-T2R**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-PA6C-730-U-T2R
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K LIGHT ENGINES AND TYPE II ROADWAY OPTICS, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56392 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

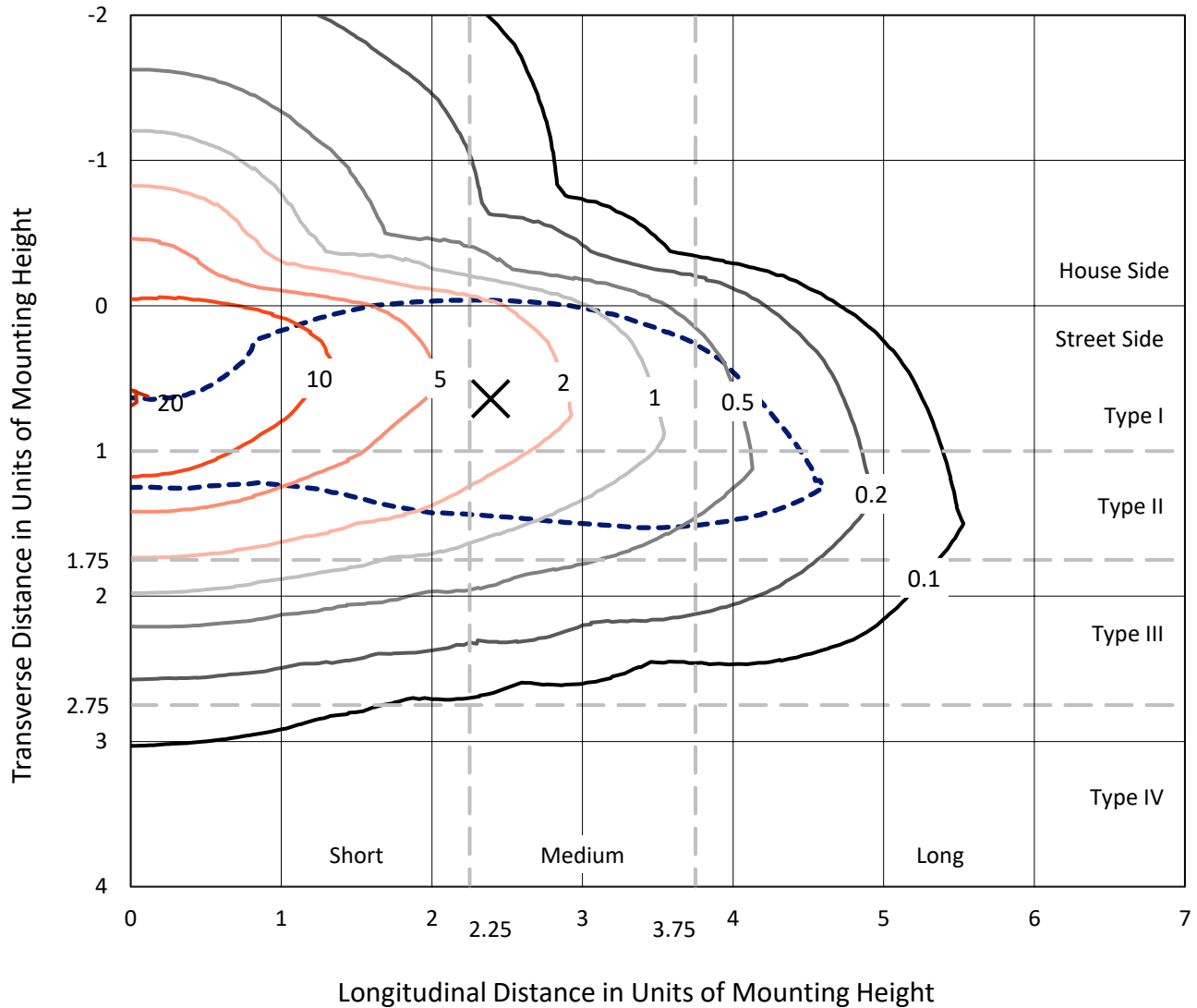
Input Watts (W): 457.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P622747
 CATALOG NUMBER: PRV-M-PA6C-730-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

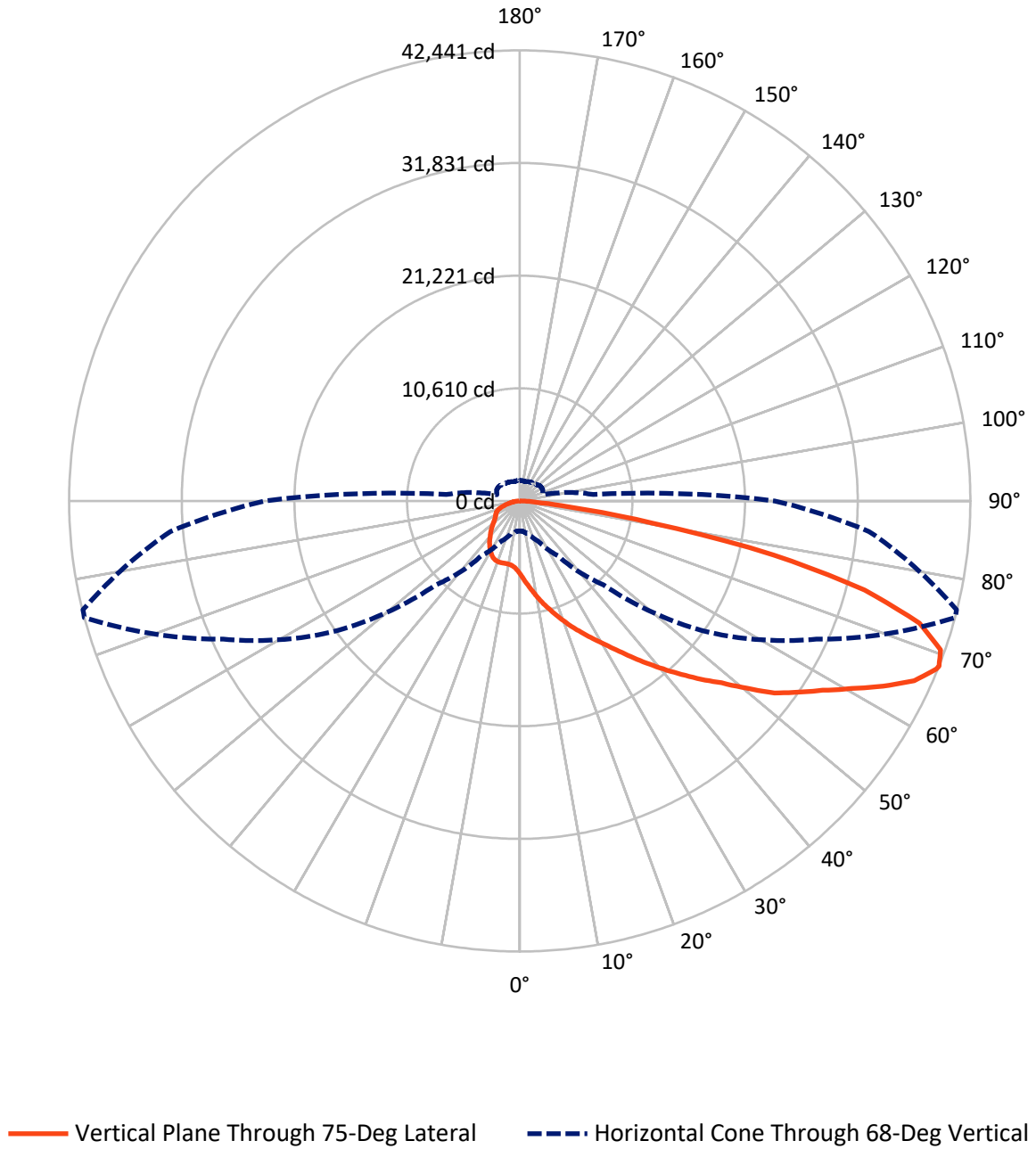
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P622747
CATALOG NUMBER: PRV-M-PA6C-730-U-T2R

Luminous Intensity Polar Plot



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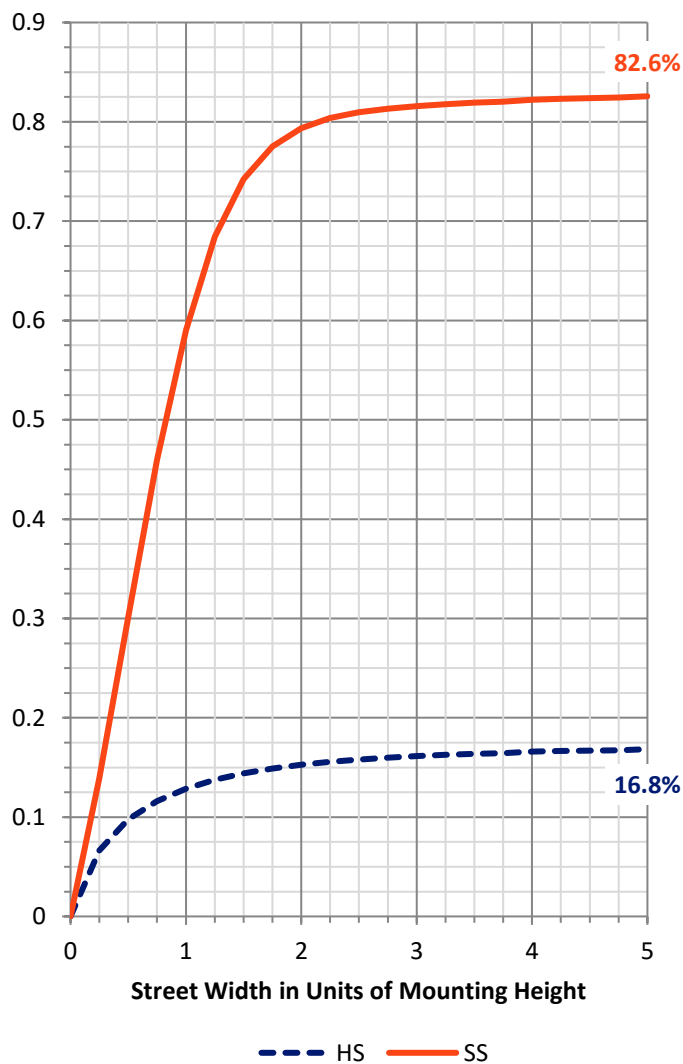
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9653.5	0.0	9653.5
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	46738.4	0.0	46738.4
	% Fixture	82.9	0.0	82.9
Total	Lumens	56392.0	0.0	56392.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	724.2	1.3
10°-20°	2478.7	4.4
20°-30°	4590.0	8.1
30°-40°	7480.1	13.3
40°-50°	10544.1	18.7
50°-60°	12127.2	21.5
60°-70°	11028.4	19.6
70°-80°	6403.7	11.4
80°-90°	1015.8	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	56392.0	100.0
0°-180°	56392.0	100.0



REPORT NUMBER: P622747

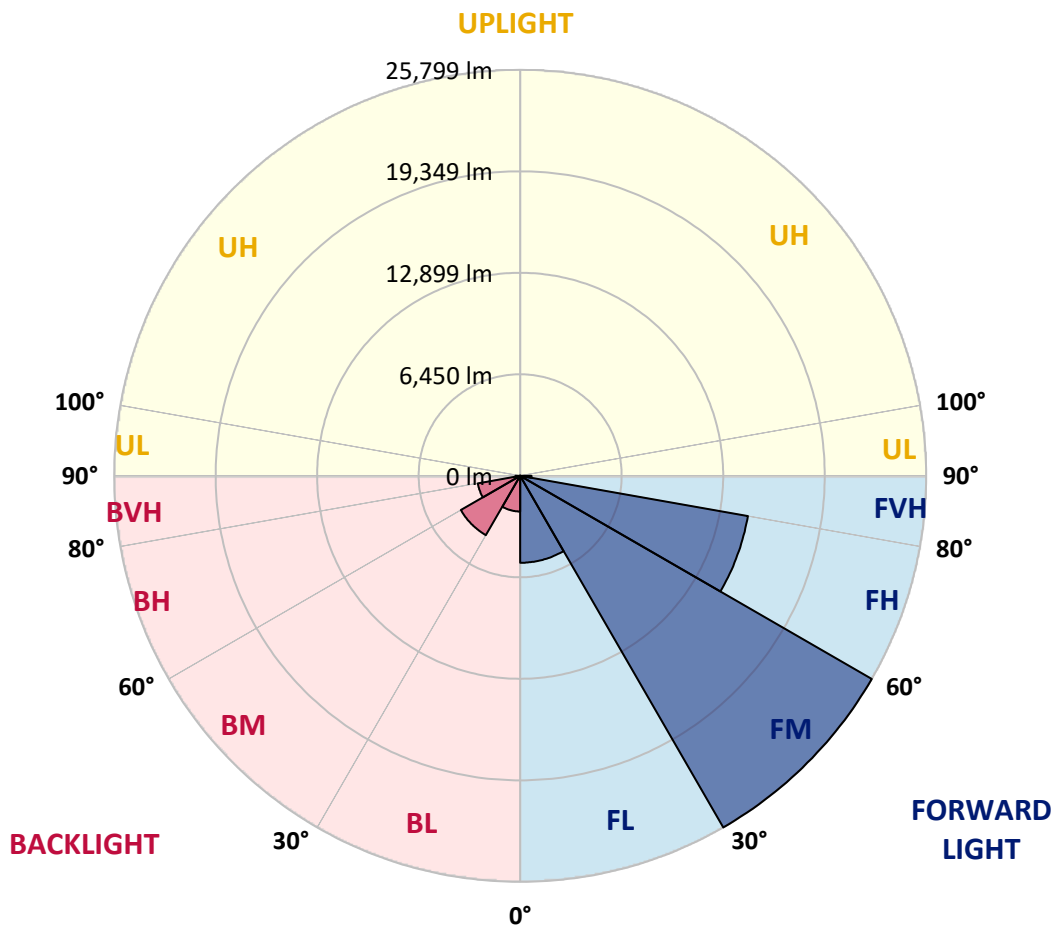
CATALOG NUMBER: PRV-M-PA6C-730-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5525.8	9.8			
FM (30°-60°)	25798.9	45.7			
FH (60°-80°)	14696.0	26.1			G5
FVH (80°-90°)	717.8	1.3			G4/750
BL (0°-30°)	2267.1	4.0	B3/2500		
BM (30°-60°)	4352.4	7.7	B3/5000		
BH (60°-80°)	2736.1	4.9	B4/5000		G4/5000
BVH (80°-90°)	298.0	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium





REPORT NUMBER: P622747

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9
2.5°	8765.5	8593.4	8569.0	8547.3	8388.7	8147.5	7991.7	7673.2	7399.4	7354.7	7087.7
5°	10008.2	9909.3	9842.9	9777.8	9586.8	9387.5	9004.0	8508.0	7956.4	7879.2	7337.1
7.5°	10719.7	10634.3	10603.2	10562.5	10428.3	10241.3	9883.5	9310.3	8563.6	8482.3	7658.3
10°	11379.7	11263.1	11240.1	11225.2	11135.8	10962.3	10691.2	10101.7	9234.4	9101.6	8068.9
12.5°	11958.4	11866.2	11879.8	11866.2	11839.1	11737.5	11478.6	10894.5	9925.6	9775.1	8494.5
15°	12347.3	12238.9	12335.1	12446.2	12507.2	12514.0	12275.5	11699.5	10601.8	10466.3	8974.2
17.5°	12546.5	12434.0	12579.1	12793.2	13045.2	13171.3	13072.3	12545.2	11362.1	11191.3	9490.5
20°	12951.7	12816.2	12949.0	13152.3	13506.0	13771.6	13865.1	13420.6	12150.8	11957.0	10034.0
22.5°	13821.8	13674.1	13712.0	13787.9	14063.0	14350.3	14550.9	14305.6	12955.8	12748.5	10595.0
25°	15328.8	15194.6	15018.4	14843.6	14896.5	15029.3	15177.0	15183.8	13792.0	13557.5	11176.4
27.5°	17432.1	17113.6	16800.5	16323.5	16037.5	15904.7	15845.1	16047.0	14670.1	14428.9	11742.9
30°	19544.8	19248.0	18788.6	18178.8	17509.3	17102.7	16690.8	16879.1	15620.1	15349.1	12324.3
32.5°	21373.0	21084.3	20616.8	19929.7	19136.9	18574.5	17757.3	17761.4	16719.2	16380.4	13008.7
35°	22980.3	22587.3	22114.3	21398.8	20623.6	19937.8	19010.9	18707.3	18001.2	17620.4	13836.7
37.5°	24189.1	23775.8	23292.0	22587.3	21898.8	21387.9	20386.4	19748.1	19370.0	19014.9	14748.7
40°	24996.8	24582.1	24145.8	23514.2	22941.0	22640.1	21997.8	20927.1	20798.4	20394.5	15753.0
42.5°	25362.7	24963.0	24685.1	24155.3	23728.4	23691.8	23382.8	22252.5	22335.2	21917.8	16856.1
45°	25212.3	24861.3	24727.1	24445.3	24221.7	24469.7	24778.6	23655.2	23960.1	23564.4	18032.4
47.5°	24492.7	24213.5	24307.0	24313.8	24373.4	25014.5	25883.1	25120.2	25601.3	25212.3	19464.9
50°	22991.1	22842.1	23308.2	23760.9	24159.3	25299.0	26900.9	26728.8	27726.2	27291.2	21260.5
52.5°	19708.8	19917.5	21265.9	22403.0	23531.9	25263.8	27714.0	28501.4	30046.3	29616.7	23037.2
55°	15640.5	15870.9	17577.1	20107.2	22275.6	24851.8	28165.3	29764.5	31816.2	31507.3	24616.0
57.5°	12551.9	12703.7	13912.6	16765.3	20002.9	23877.4	28405.2	30722.6	33645.8	33309.7	26426.6
60°	9987.9	10151.9	11051.7	13218.7	16868.3	22060.1	28352.3	31545.2	35885.9	35591.9	28440.4
62.5°	7536.3	7482.1	8262.7	10080.0	13466.7	19262.9	27560.9	32109.0	38406.6	38187.1	30413.6
65°	4794.7	4983.1	5628.2	7040.3	10126.1	15732.6	25633.8	32067.0	40823.0	40715.9	32048.0
67.5°	3103.4	3098.0	3527.6	4633.5	6902.1	11929.9	22309.5	31159.0	42298.8	42259.5	33011.5
68°	2844.6	2843.2	3214.6	4205.2	6318.0	11172.3	21477.4	30821.5	42441.1	42396.4	33014.3
70°	2236.1	2233.4	2397.4	2835.1	4332.6	8254.6	17478.1	28832.1	42050.8	42041.3	32281.1
72.5°	1933.9	1928.5	1977.3	2080.2	2665.7	5260.9	12206.4	24899.3	39345.8	39206.2	29788.9
75°	1737.4	1730.6	1760.4	1755.0	1933.9	3218.6	7545.8	20101.8	33541.4	33109.1	23361.1
77.5°	1535.5	1527.3	1555.8	1553.1	1637.1	2161.6	4145.6	14396.4	24412.7	22995.2	14480.4
80°	1307.8	1301.0	1334.9	1343.0	1436.5	1626.3	2142.6	8907.8	12707.8	11593.8	6074.0
82.5°	1036.7	1047.6	1107.2	1128.9	1225.1	1180.4	1330.8	4144.2	4575.2	4019.6	1862.1
85°	654.6	687.1	837.5	871.4	947.3	754.9	918.8	1680.5	1475.8	1332.2	491.9
87.5°	243.9	271.0	479.7	483.8	482.5	304.9	468.9	593.6	474.3	429.6	153.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9	6889.9
2.5°	6961.7	6789.6	6533.5	6297.7	6103.9	5950.7	5797.6	5736.6	5675.6	5666.1	5602.4
5°	7052.5	6746.2	6266.5	5901.9	5649.9	5475.0	5363.9	5315.1	5282.6	5270.4	5214.8
7.5°	7217.8	6770.6	6110.6	5686.5	5460.1	5355.8	5319.2	5315.1	5313.8	5316.5	5254.1
10°	7459.1	6872.3	6051.0	5617.3	5453.4	5404.6	5404.6	5418.1	5418.1	5427.6	5366.6
12.5°	7732.8	6998.3	6034.7	5628.2	5510.3	5473.7	5468.3	5477.8	5464.2	5466.9	5405.9
15°	8036.4	7148.7	6049.7	5662.1	5545.5	5490.0	5449.3	5430.3	5393.7	5377.5	5321.9
17.5°	8377.9	7324.9	6074.0	5671.6	5518.4	5420.8	5327.3	5262.3	5206.7	5199.9	5133.5
20°	8747.9	7514.6	6083.5	5624.1	5415.4	5260.9	5121.3	5025.1	4943.8	4908.6	4861.1
22.5°	9150.4	7705.7	6037.5	5485.9	5225.7	5023.8	4850.3	4724.3	4609.1	4568.4	4507.4
25°	9561.0	7880.5	5933.1	5297.5	4970.9	4737.8	4516.9	4352.9	4221.5	4167.3	4111.7
27.5°	9959.4	8017.4	5765.1	5049.5	4691.7	4420.7	4160.5	3961.3	3824.4	3779.7	3732.2
30°	10356.5	8129.9	5525.2	4781.2	4407.1	4096.8	3816.3	3623.8	3505.9	3434.1	3388.0
32.5°	10836.3	8243.7	5285.3	4504.7	4114.4	3778.3	3535.7	3386.7	3240.3	3154.9	3112.9
35°	11396.0	8371.1	5006.1	4222.8	3812.2	3507.3	3359.6	3165.8	2990.9	2925.9	2892.0
37.5°	12050.5	8494.5	4716.1	3939.6	3520.8	3335.2	3215.9	2978.8	2845.9	2808.0	2783.6
40°	12782.3	8606.9	4376.0	3660.4	3256.6	3209.1	3058.7	2869.0	2767.3	2717.2	2690.1
42.5°	13584.6	8699.1	4098.2	3367.7	3049.2	3057.4	2923.2	2813.4	2671.1	2611.5	2588.4
45°	14494.0	8838.7	3836.6	3079.0	2874.4	2874.4	2824.3	2709.1	2584.4	2547.8	2532.9
47.5°	15678.4	9032.5	3561.5	2836.5	2753.8	2709.1	2717.2	2574.9	2518.0	2482.7	2470.5
50°	17041.8	9188.3	3282.3	2668.4	2671.1	2608.8	2558.6	2492.2	2452.9	2415.0	2390.6
52.5°	18295.3	9191.0	3056.0	2574.9	2595.2	2538.3	2434.0	2415.0	2387.9	2326.9	2307.9
55°	19467.6	9143.6	2863.6	2526.1	2526.1	2463.8	2364.8	2348.6	2313.3	2253.7	2241.5
57.5°	20805.2	9090.7	2722.6	2509.8	2485.5	2368.9	2313.3	2293.0	2236.1	2200.9	2188.7
60°	22249.8	9012.1	2618.3	2512.6	2462.4	2293.0	2268.6	2237.5	2179.2	2153.4	2142.6
62.5°	23695.8	8784.5	2532.9	2522.0	2448.9	2253.7	2223.9	2183.2	2120.9	2100.6	2089.7
65°	24476.4	8185.5	2427.2	2511.2	2432.6	2230.7	2173.8	2118.2	2034.2	2026.0	2009.8
67.5°	24235.2	7192.1	2261.8	2431.2	2409.6	2199.5	2108.7	2019.3	1916.3	1950.1	1933.9
68°	24017.0	6949.5	2219.8	2404.1	2401.4	2192.7	2093.8	1994.9	1891.9	1936.6	1909.5
70°	22554.7	5916.8	2013.8	2249.6	2336.4	2164.3	2017.9	1895.9	1779.4	1863.4	1821.4
72.5°	19361.9	4560.3	1691.3	1971.8	2171.0	2115.5	1917.6	1741.4	1611.3	1616.8	1565.3
75°	14392.3	3153.6	1359.3	1592.4	1912.2	2047.7	1799.7	1573.4	1410.8	1356.6	1334.9
77.5°	7871.1	2057.2	1061.1	1208.8	1544.9	1870.2	1656.1	1389.1	1203.4	1151.9	1123.5
80°	3267.4	1221.0	822.6	891.7	1072.0	1596.4	1550.4	1199.4	992.0	948.6	909.3
82.5°	1081.5	748.1	609.8	604.4	700.6	1244.1	1367.4	944.6	761.6	792.8	655.9
85°	378.1	393.0	384.9	363.2	391.7	729.1	1012.3	628.8	496.0	405.2	380.8
87.5°	105.7	142.3	143.7	113.8	116.5	168.0	456.7	287.3	174.8	116.5	103.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)