

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: P287012

Luminaire Tested: **PRV-C40-D-UNV-T2-BZ-7050-HSS**

Issue Date: 3/4/2019

Test Information

Test Method: LM-79-08
Report Number: P287012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-5)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 3/4/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-C40-D-UNV-T2-BZ-7050-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16080 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

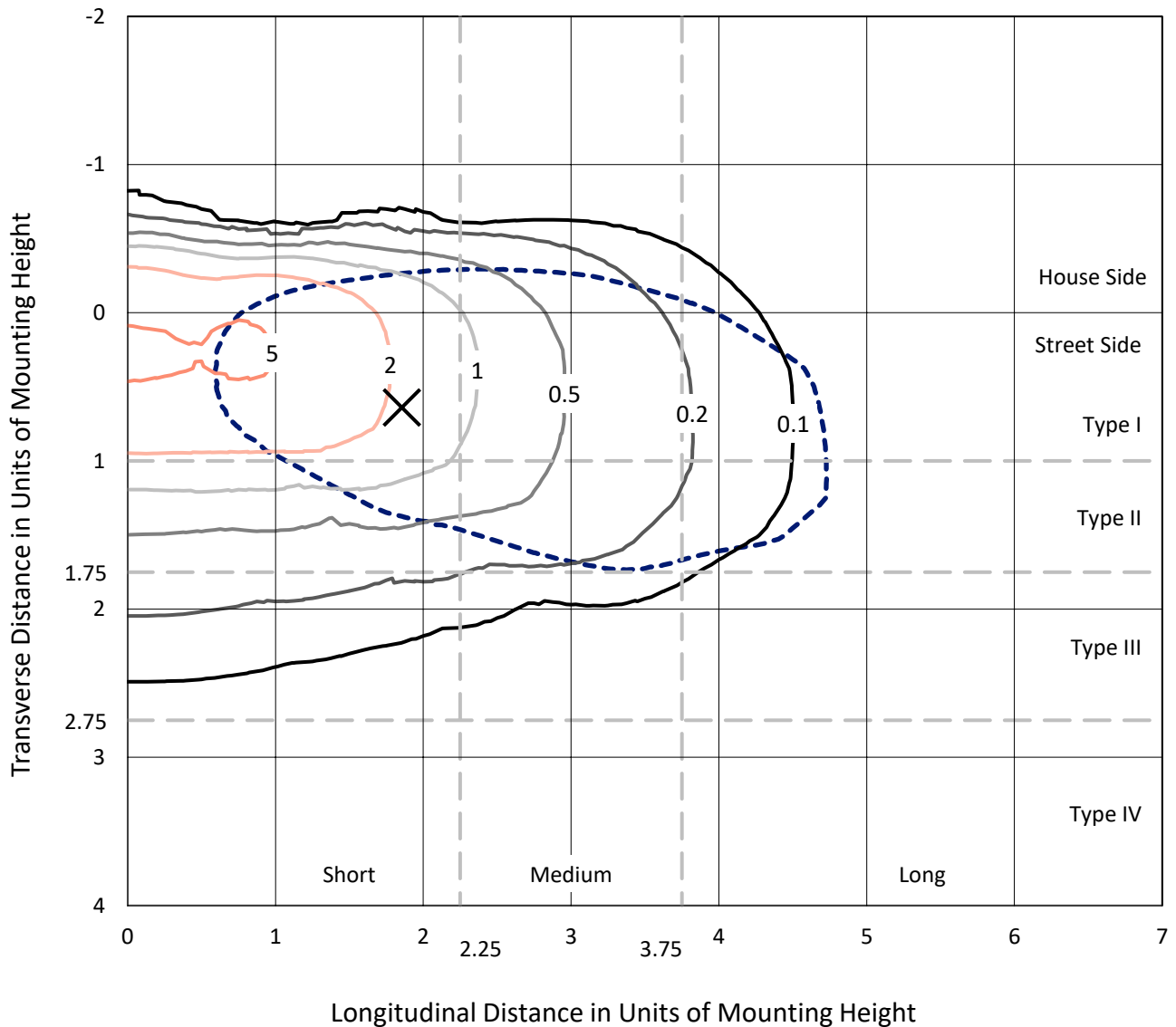
Input Watts (W): 131
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P287012
 CATALOG NUMBER: PRV-C40-D-UNV-T2-BZ-7050-HSS

Iso-Footcandle Lines of Horizontal Illumination

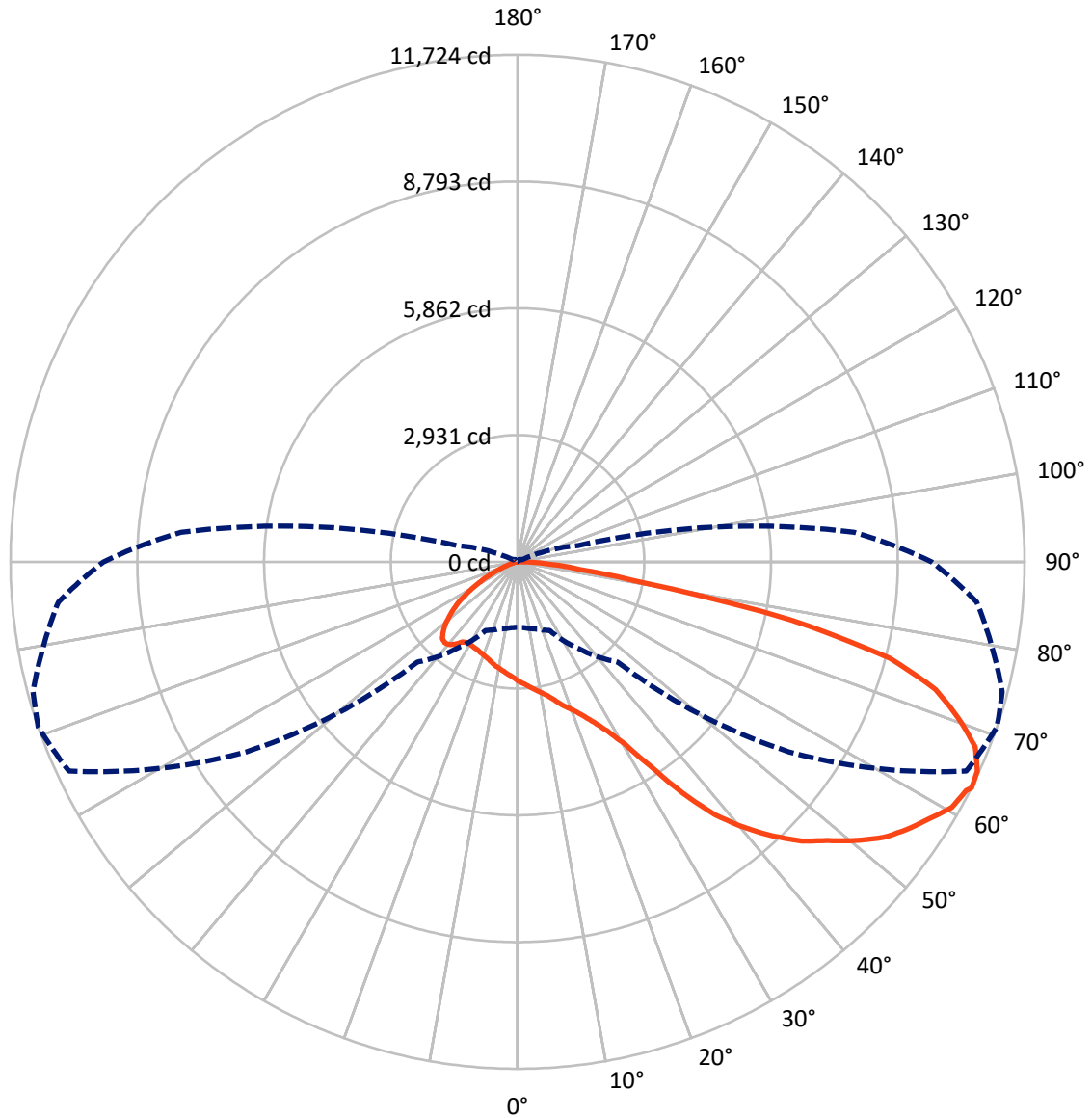
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

REPORT NUMBER: P287012
CATALOG NUMBER: PRV-C40-D-UNV-T2-BZ-7050-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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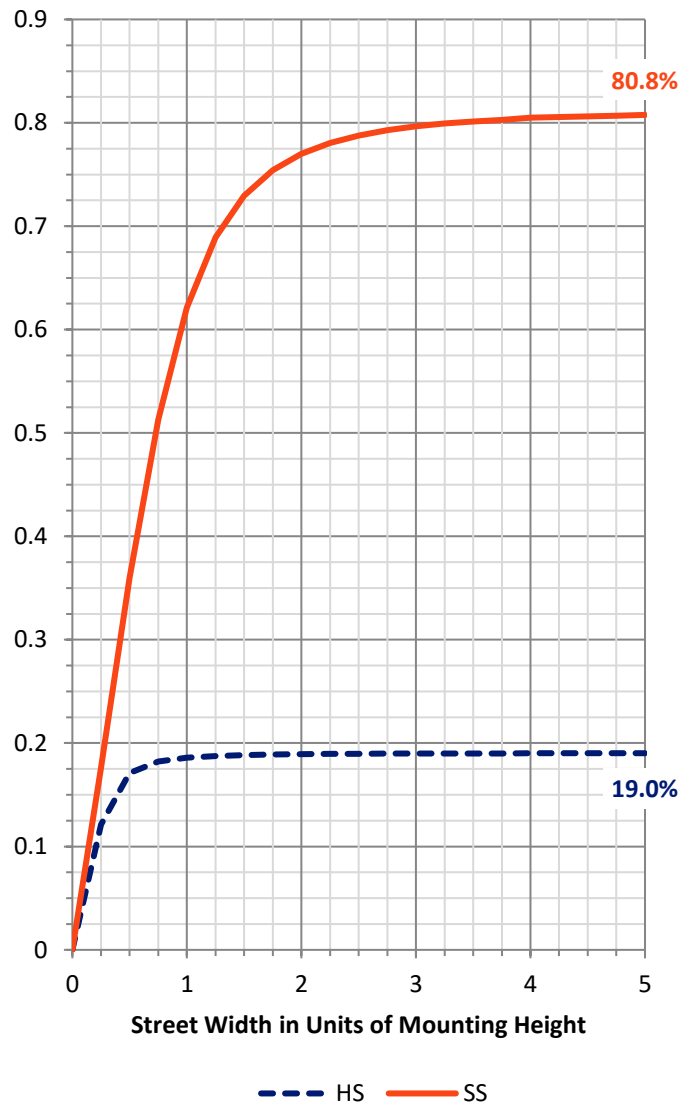
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3094.8	0.0	3094.8
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	12985.2	0.0	12985.2
	% Fixture	80.8	0.0	80.8
Total	Lumens	16080.0	0.0	16080.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.1	1.6
10°-20°	790.5	4.9
20°-30°	1329.4	8.3
30°-40°	2031.8	12.6
40°-50°	2830.4	17.6
50°-60°	3278.0	20.4
60°-70°	3246.4	20.2
70°-80°	2012.4	12.5
80°-90°	298.0	1.9
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°	16080.0	100.0
0°-180°	16080.0	100.0

Coefficient of Utilization

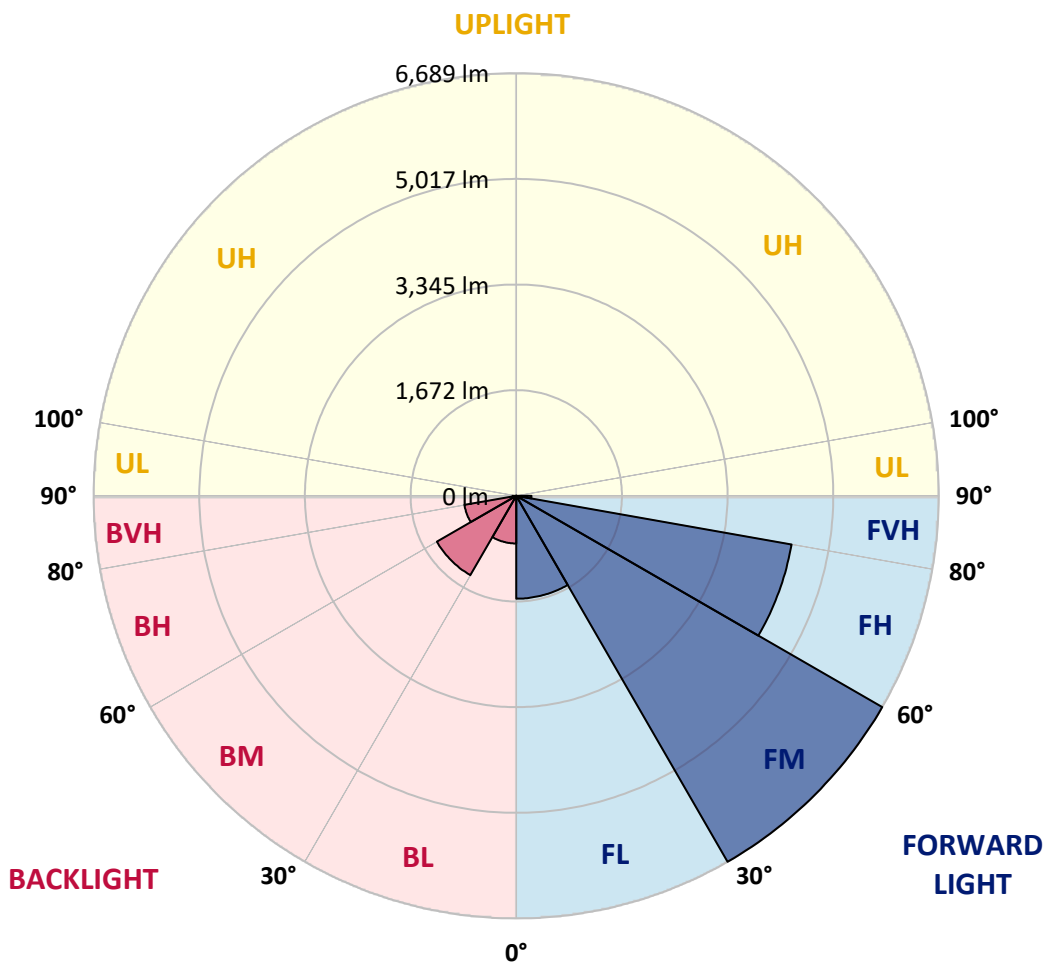


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1628.4	10.1			
FM (30°-60°)	6689.5	41.6			
FH (60°-80°)	4426.0	27.5			G2/5000
FVH (80°-90°)	241.4	1.5			G3/500
BL (0°-30°)	754.7	4.7	B2/1000		
BM (30°-60°)	1450.7	9.0	B2/2500		
BH (60°-80°)	832.7	5.2	B2/1000		G2/1000
BVH (80°-90°)	56.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2763.7	2763.7	2763.7	2763.7	2763.7	2763.7	2763.7	2763.7	2763.7	2763.7	2763.7
2.5°	3043.6	3014.6	3013.7	2977.1	2949.7	2934.4	2892.6	2855.9	2824.3	2820.9	2764.6
5°	3209.1	3202.3	3192.9	3135.8	3110.2	3076.0	3030.0	2959.1	2902.0	2887.5	2797.9
7.5°	3396.0	3390.9	3372.1	3320.9	3256.1	3216.0	3126.4	3055.6	2995.0	2964.3	2843.1
10°	3503.5	3502.7	3501.0	3458.3	3408.0	3349.1	3253.5	3149.4	3079.4	3047.0	2872.1
12.5°	3674.2	3651.1	3643.5	3591.4	3527.4	3484.7	3396.9	3285.1	3190.4	3133.2	2937.8
15°	3811.5	3812.4	3797.9	3751.0	3703.2	3634.9	3560.7	3448.9	3344.8	3301.3	3050.4
17.5°	3982.2	3966.8	3949.8	3900.3	3849.9	3778.3	3732.2	3596.5	3511.2	3415.6	3149.4
20°	4090.6	4064.1	4045.3	4013.8	3993.3	3936.1	3894.3	3774.0	3657.1	3575.2	3260.3
22.5°	4165.7	4193.0	4185.3	4134.1	4141.8	4124.7	4071.8	3990.7	3859.3	3724.5	3388.3
25°	4211.7	4205.8	4250.1	4283.4	4341.4	4338.0	4298.8	4227.9	4111.0	3966.0	3579.5
27.5°	4225.4	4225.4	4297.1	4390.9	4527.4	4557.3	4562.4	4558.2	4428.5	4297.1	3830.3
30°	4245.9	4268.9	4338.0	4454.9	4652.9	4771.5	4827.8	4922.5	4890.1	4775.7	4239.9
32.5°	4164.8	4167.4	4268.0	4493.3	4781.7	5028.3	5139.2	5474.6	5617.1	5670.0	5070.1
35°	3903.7	3930.1	4113.6	4424.2	4841.4	5249.3	5550.5	6243.4	6557.4	6564.2	5864.5
37.5°	3722.8	3748.4	3945.5	4324.4	4888.4	5472.0	6020.7	7106.9	7424.3	7345.8	6549.7
40°	3524.8	3567.5	3776.6	4189.5	4881.5	5690.4	6523.2	7871.4	8083.0	7979.8	7110.3
42.5°	3332.0	3338.8	3544.5	4002.7	4846.6	5867.9	7014.7	8436.3	8670.1	8536.9	7659.8
45°	3098.2	3128.9	3332.0	3754.4	4730.5	5977.1	7447.3	9055.7	9211.0	9062.6	8118.8
47.5°	2828.6	2867.8	3128.9	3524.8	4472.8	5993.4	7836.4	9612.9	9628.3	9510.5	8601.8
50°	2184.4	2209.1	2745.8	3298.7	4164.8	5928.5	8207.6	10030.2	10130.0	9976.4	9013.9
52.5°	1977.9	1998.4	2148.5	3004.4	3752.7	5711.8	8467.0	10509.7	10590.8	10455.9	9416.7
55°	1896.0	1905.3	1958.2	2435.2	3407.1	5326.9	8630.8	10868.1	10926.1	10758.8	9750.3
57.5°	1752.6	1761.1	1873.8	2076.9	3117.0	4690.4	8610.3	11221.3	11217.1	11030.2	10095.9
60°	1644.2	1662.2	1757.7	1909.6	2767.1	3924.2	8329.6	11491.8	11533.6	11362.1	10347.6
62.5°	1541.9	1548.7	1629.7	1776.5	2483.0	3365.3	7801.4	11467.1	11643.7	11516.6	10664.1
63°	1512.8	1525.6	1605.8	1748.3	2442.1	3277.4	7658.9	11447.4	11723.9	11599.3	10656.5
65°	1423.3	1425.0	1503.5	1638.3	2246.7	3003.5	7185.4	11188.0	11682.1	11607.0	10788.7
67.5°	1252.6	1265.4	1335.4	1466.8	1920.7	2655.4	5961.8	11015.7	11410.7	11450.0	10572.8
70°	1063.2	1070.9	1157.0	1285.9	1614.4	2252.6	4459.2	10415.0	10810.0	10858.7	10005.4
72.5°	833.6	837.9	931.8	1081.9	1320.9	1860.1	3076.9	9368.0	10109.5	10109.5	9035.2
75°	262.0	309.7	652.7	872.0	1067.4	1439.5	2021.4	7268.1	8885.9	9106.9	7735.7
77.5°	85.3	92.2	206.5	459.9	672.4	1105.0	1342.2	3863.6	6455.0	7062.5	6101.7
80°	61.4	71.7	128.0	344.7	423.2	470.2	831.9	2105.9	2933.5	3844.8	4075.2
82.5°	31.6	41.0	90.4	219.3	240.6	237.2	369.5	995.8	1465.1	1769.7	2114.4
85°	14.5	17.9	39.3	76.8	66.6	62.3	130.5	521.3	826.0	976.1	1054.6
87.5°	3.4	5.1	14.5	27.3	17.1	13.7	15.4	165.5	301.2	375.4	388.2
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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CATALOG NUMBER: PRV-C40-D-UNV-T2-BZ-7050-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2763.7	2763.7	2763.7	2763.7	2763.7	2763.7	2763.7	2763.7	2763.7	2763.7	2763.7
2.5°	2740.7	2754.3	2689.5	2657.9	2604.2	2587.1	2560.7	2529.1	2518.8	2544.4	2527.4
5°	2764.6	2745.8	2652.0	2566.6	2495.0	2438.6	2396.0	2342.2	2309.8	2317.5	2322.6
7.5°	2774.0	2732.2	2599.1	2494.1	2372.9	2300.4	2222.8	2146.8	2114.4	2119.5	2122.9
10°	2783.4	2720.2	2563.2	2408.8	2264.6	2152.8	2064.1	1963.4	1914.7	1916.4	1932.7
12.5°	2838.8	2716.0	2533.4	2346.5	2159.6	2020.5	1912.2	1800.4	1731.3	1736.4	1749.2
15°	2917.3	2752.6	2495.0	2254.3	2058.1	1900.2	1765.4	1641.7	1588.8	1596.5	1608.4
17.5°	2984.7	2793.6	2465.1	2157.1	1935.2	1765.4	1643.4	1537.6	1441.2	1455.7	1447.1
20°	3053.0	2851.6	2455.7	2075.1	1829.4	1634.0	1495.8	1410.5	1291.0	1258.6	1248.3
22.5°	3162.2	2916.5	2447.2	2000.1	1704.0	1518.8	1346.5	1221.0	1049.5	990.6	967.6
25°	3305.6	3009.5	2434.4	1932.7	1599.9	1381.4	1147.6	922.4	795.2	720.2	685.2
27.5°	3499.2	3142.6	2453.1	1872.9	1494.9	1218.5	871.2	669.8	556.3	491.5	454.8
30°	3823.5	3316.7	2457.4	1819.2	1366.9	971.9	620.3	465.9	369.5	325.1	302.9
32.5°	4536.0	3844.8	2495.8	1757.7	1229.6	715.0	431.8	312.3	235.5	207.3	220.1
35°	5285.1	4493.3	2634.0	1670.7	1014.5	483.8	285.0	202.2	151.0	155.3	159.6
37.5°	5853.4	4996.7	2924.1	1564.0	762.8	331.1	171.5	138.2	133.1	145.1	167.2
40°	6412.3	5497.6	3182.7	1435.2	517.1	198.8	116.0	127.1	119.5	124.6	126.3
42.5°	6902.1	5896.9	3367.8	1244.9	320.0	116.9	101.5	117.8	109.2	106.7	93.9
45°	7375.6	6242.5	3482.2	982.1	183.5	93.0	93.0	112.6	105.8	99.8	85.3
47.5°	7794.6	6629.0	3454.0	678.3	111.8	83.6	87.0	101.5	99.0	91.3	83.6
50°	8180.3	6908.9	3380.6	384.8	98.1	79.4	84.5	84.5	88.7	69.1	63.1
52.5°	8516.5	7157.2	3144.3	205.6	91.3	75.9	75.9	67.4	71.7	52.9	50.3
55°	8862.0	7417.5	2811.5	161.3	87.0	75.9	67.4	58.9	53.8	38.4	41.0
57.5°	9146.2	7609.4	2380.6	145.1	89.6	72.5	61.4	51.2	42.7	29.9	29.0
60°	9409.0	7768.1	1962.5	128.8	96.4	73.4	51.2	42.7	29.9	23.9	21.3
62.5°	9567.7	7804.0	1522.2	116.9	96.4	67.4	46.1	35.8	23.0	16.2	15.4
63°	9572.8	7815.1	1453.1	116.0	98.1	67.4	46.1	35.0	21.3	15.4	14.5
65°	9647.9	7583.8	1146.8	113.5	99.8	64.0	43.5	28.2	17.9	11.9	11.1
67.5°	9361.2	7138.4	754.3	111.8	99.8	62.3	38.4	23.9	15.4	9.4	7.7
70°	8603.5	6376.5	461.6	107.5	101.5	61.4	47.8	20.5	13.7	6.8	6.0
72.5°	7559.1	5632.4	265.4	95.6	99.8	50.3	27.3	17.9	11.9	5.1	4.3
75°	6398.7	4527.4	167.2	74.2	77.6	41.8	23.0	16.2	10.2	2.6	2.6
77.5°	4861.9	3257.8	143.3	57.2	46.1	36.7	19.6	12.8	6.8	0.9	0.9
80°	3433.5	2302.1	103.2	35.8	25.6	23.0	14.5	8.5	2.6	0.0	0.0
82.5°	1932.7	1257.7	56.3	12.8	7.7	8.5	6.8	3.4	0.0	0.0	0.0
85°	911.3	491.5	28.2	8.5	4.3	3.4	0.9	0.0	0.0	0.0	0.0
87.5°	338.7	118.6	6.8	3.4	2.6	0.9	0.0	0.0	0.0	0.0	0.0
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)