

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: STREETWORKS

Report Number: P194073

Luminaire Tested: **GAN-AF-05-LED-U-T4FT-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-T4FT-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24422 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

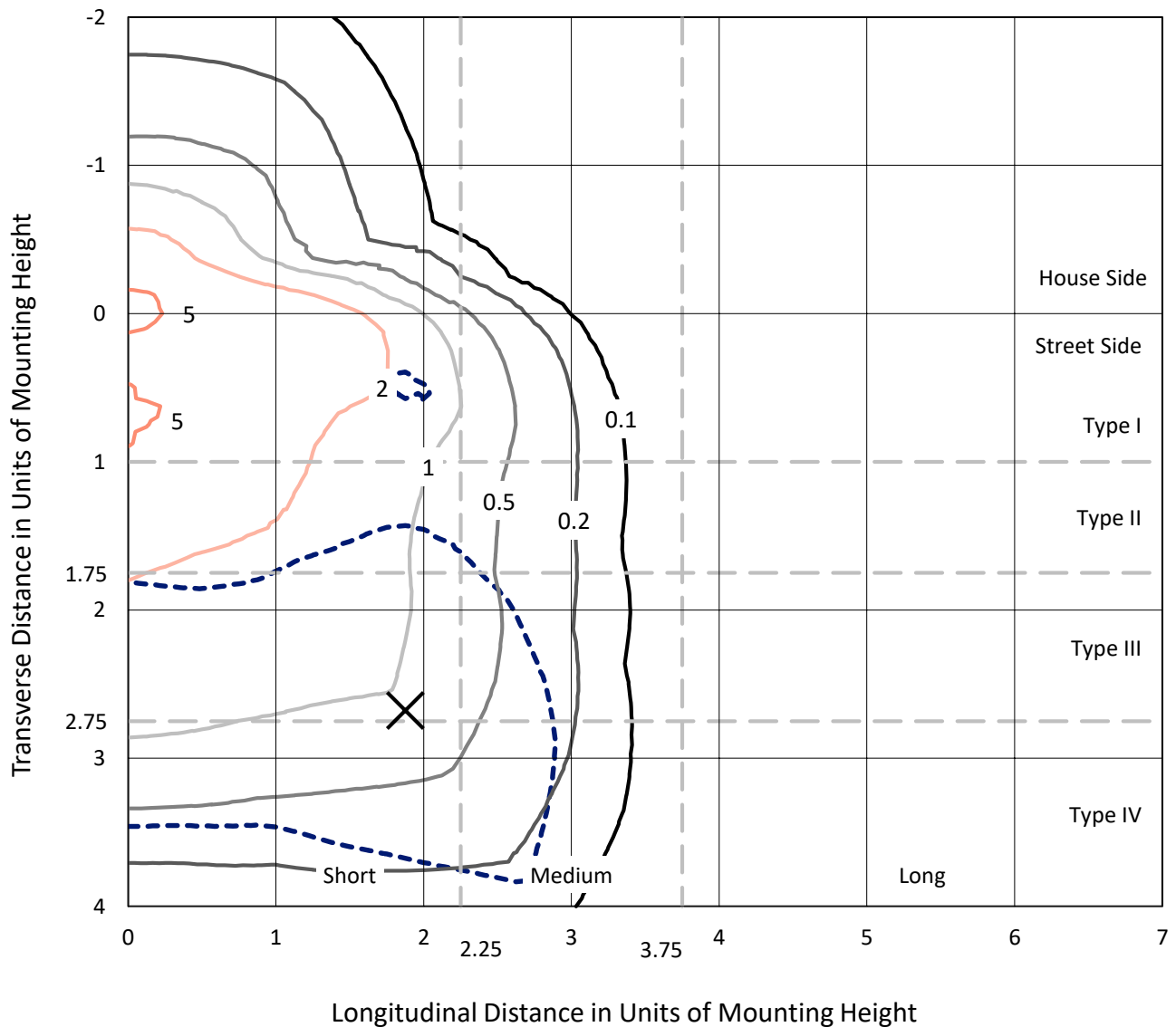
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

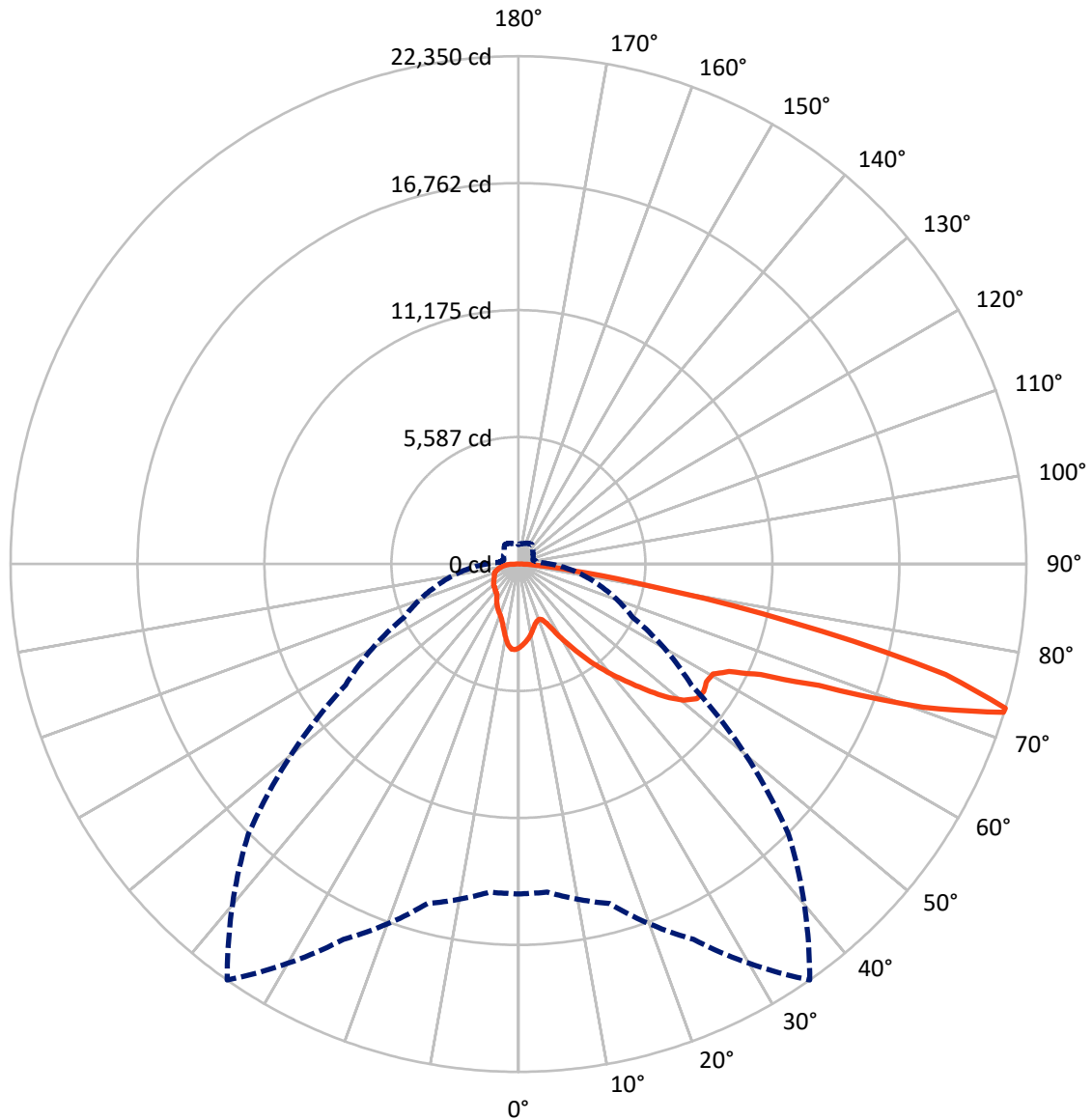
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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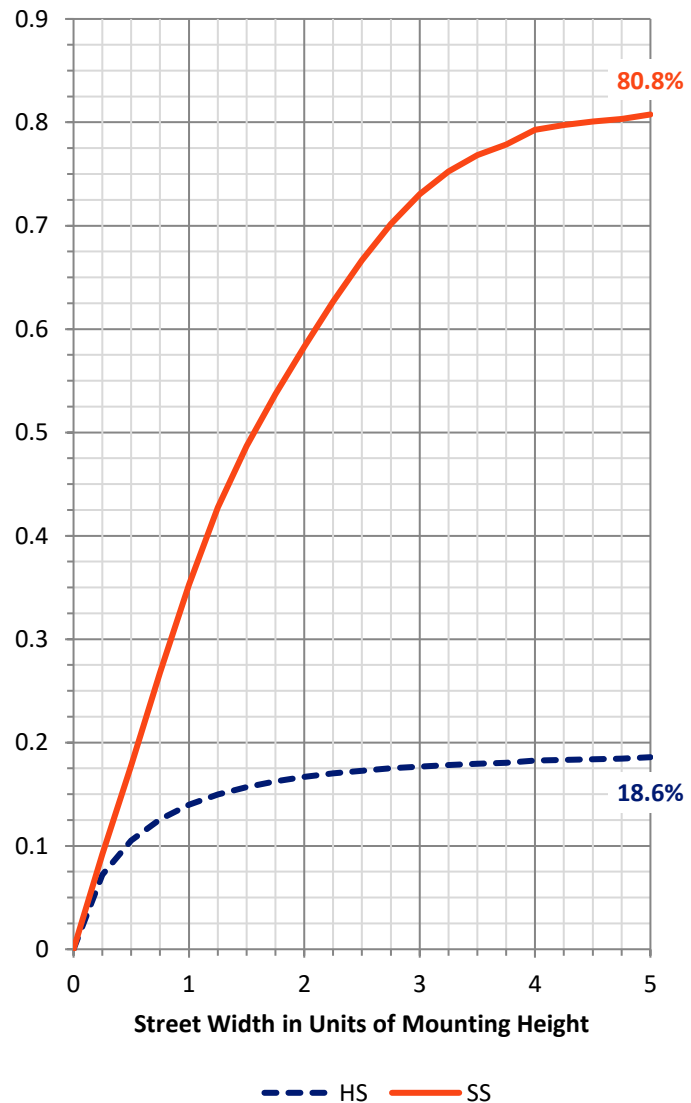
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4658.0	0.0	4658.0
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	19764.1	0.0	19764.1
	% Fixture	80.9	0.0	80.9
Total	Lumens	24422.0	0.0	24422.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.7	1.4
10°-20°	832.8	3.4
20°-30°	1346.4	5.5
30°-40°	2257.8	9.2
40°-50°	3480.2	14.3
50°-60°	4669.1	19.1
60°-70°	6220.2	25.5
70°-80°	4744.1	19.4
80°-90°	537.7	2.2
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°	24422.0	100.0
0°-180°	24422.0	100.0



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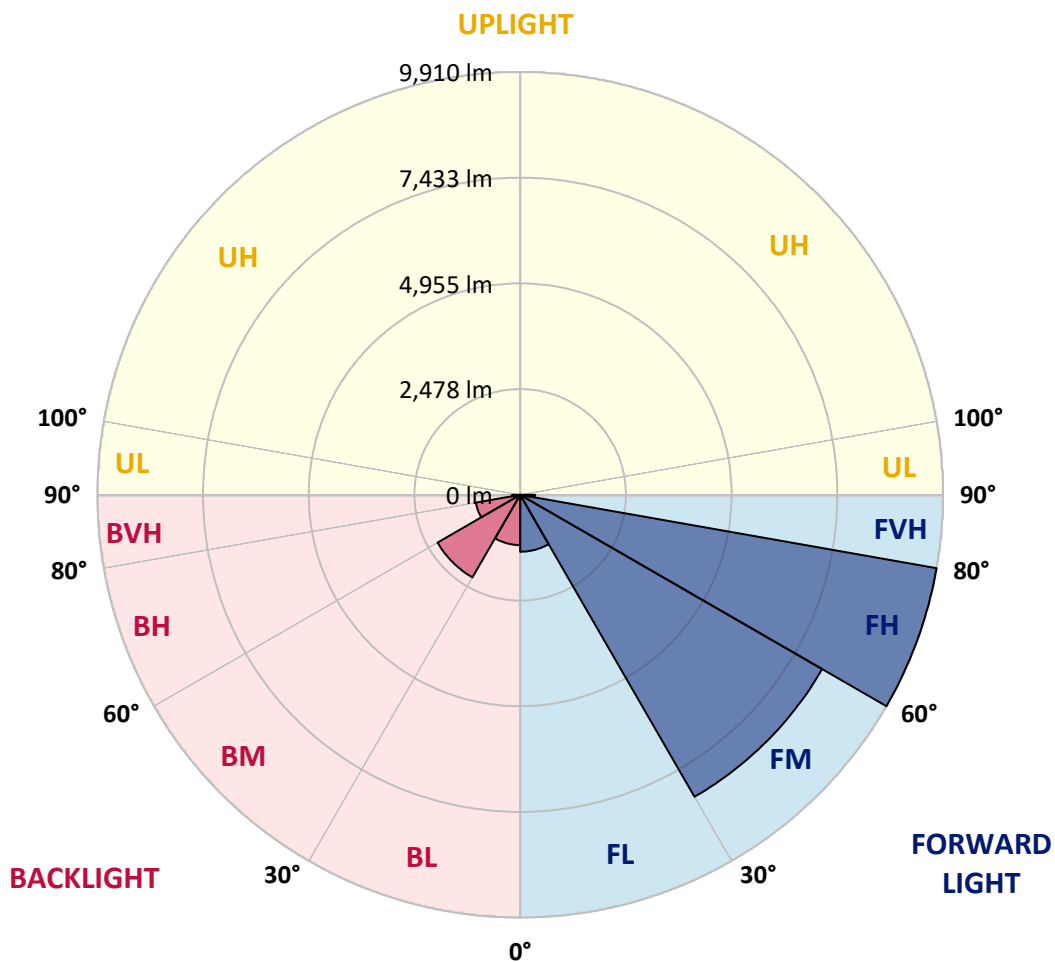
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1334.3	5.5			
FM	(30°-60°)	8171.8	33.5			
FH	(60°-80°)	9910.4	40.6			G4/12000
FVH	(80°-90°)	347.6	1.4			G3/500
BL	(0°-30°)	1178.7	4.8	B3/2500		
BM	(30°-60°)	2235.3	9.2	B2/2500		
BH	(60°-80°)	1053.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	190.1	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3686.0	3686.0	3686.0	3686.0	3686.0	3686.0	3686.0	3686.0	3686.0	3686.0	3686.0
2.5°	3540.6	3547.7	3539.4	3550.0	3567.6	3586.4	3599.3	3618.0	3639.1	3668.4	3675.5
5°	3374.1	3384.6	3384.6	3403.4	3437.4	3467.9	3496.0	3526.5	3571.1	3621.5	3641.5
7.5°	3191.1	3197.0	3207.5	3235.7	3284.9	3328.3	3368.2	3417.5	3478.5	3545.3	3580.5
10°	2970.6	2978.9	2995.3	3035.1	3102.0	3161.8	3219.3	3287.3	3364.7	3448.0	3492.5
12.5°	2814.7	2812.3	2819.4	2848.7	2907.3	2980.0	3063.3	3150.1	3245.1	3342.4	3396.4
15°	2761.9	2749.0	2722.0	2715.0	2746.6	2819.4	2915.5	3022.2	3136.0	3253.3	3320.1
17.5°	2794.7	2772.4	2698.6	2644.6	2639.9	2695.0	2797.1	2916.7	3048.0	3191.1	3274.4
20°	3001.1	2948.4	2766.6	2641.1	2597.7	2624.7	2713.8	2840.5	2995.3	3185.3	3292.0
22.5°	3494.9	3417.5	3031.6	2798.2	2651.6	2618.8	2685.7	2820.5	3001.1	3258.0	3394.0
25°	4213.8	4103.5	3486.7	3190.0	2887.4	2712.6	2727.9	2866.3	3084.4	3426.9	3591.0
27.5°	4781.4	4709.9	4081.3	3742.3	3316.6	2966.0	2865.1	2981.2	3254.5	3703.6	3871.3
30°	5119.2	5075.8	4716.9	4368.6	3864.3	3369.4	3127.8	3197.0	3520.7	4087.1	4225.5
32.5°	5510.9	5485.1	5309.2	4989.0	4455.4	3899.5	3544.1	3519.5	3877.2	4548.0	4611.4
35°	5916.7	5908.5	5805.2	5575.4	5089.9	4598.5	4096.5	3930.0	4265.4	5026.5	4986.6
37.5°	6294.3	6280.2	6220.4	6086.7	5753.6	5349.0	4659.4	4351.0	4684.1	5483.9	5306.8
40°	6989.8	6879.5	6674.3	6573.4	6424.5	5981.2	5106.3	4743.9	5118.0	5920.2	5583.6
42.5°	7837.7	7658.2	7275.9	7137.5	7116.4	6479.6	5411.2	5125.0	5555.4	6352.9	5855.7
45°	8505.0	8336.1	8006.5	7831.8	7909.2	6931.1	5717.3	5532.0	6005.8	6806.8	6136.0
47.5°	9216.9	8951.8	8515.5	8568.3	8737.2	7358.0	6029.2	5969.4	6499.5	7314.6	6484.3
50°	9242.7	9039.8	8848.6	9164.1	9426.8	7750.9	6419.8	6428.0	7103.5	7953.8	6947.5
52.5°	8706.7	8663.3	8967.1	9463.1	9841.9	8061.7	6864.3	6901.8	7876.4	8687.9	7456.5
55°	8519.1	8469.8	8820.5	9358.8	9898.2	8318.5	7346.3	7414.3	8811.1	9462.0	7952.6
57.5°	8976.4	8867.4	8890.8	9309.5	9761.0	8600.0	7871.7	8008.9	9826.7	10138.7	8271.6
60°	10254.8	10021.4	9578.1	9567.5	9834.9	9022.2	8479.2	8646.9	10882.2	10462.3	8147.3
62.5°	12047.9	11814.6	10984.2	10443.6	10403.7	9718.8	9225.1	9269.6	11492.0	10023.7	7388.5
65°	13988.9	13780.1	12852.5	12089.0	11720.7	10872.8	10091.7	9547.6	11292.7	8816.9	6060.9
67.5°	16345.0	16121.0	15323.5	14618.7	14264.5	12735.2	10700.4	9281.4	10027.2	6830.3	4356.9
70°	17992.7	17764.1	17449.8	18020.9	18887.6	15422.0	10779.0	8198.9	7489.4	4539.8	2622.3
72.5°	15843.0	15736.3	16309.8	18715.2	22325.0	17052.2	9743.4	5969.4	4349.8	2410.1	1517.6
73°	14515.5	14492.0	15470.1	18228.5	22349.6	16801.2	9289.6	5548.4	3730.6	2132.1	1387.4
75°	6554.7	6743.5	8887.3	13923.2	19417.7	13844.6	6538.2	3182.9	2107.5	1473.0	1047.3
77.5°	1575.0	1640.7	2780.7	6612.1	12262.6	8250.5	2962.4	1573.9	1347.5	1040.3	764.7
80°	670.8	693.1	1070.7	2442.9	5773.6	3322.5	1365.1	1054.3	932.4	725.9	536.0
82.5°	372.9	396.4	607.5	1108.3	2330.3	1132.9	832.7	734.2	613.4	437.4	348.3
85°	211.1	224.0	355.4	619.2	987.5	455.0	498.4	487.9	346.0	225.2	171.2
87.5°	99.7	107.9	171.2	287.3	387.0	178.3	253.3	279.1	217.0	137.2	89.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3686.0	3686.0	3686.0	3686.0	3686.0	3686.0	3686.0	3686.0	3686.0	3686.0
2.5°	3683.7	3704.8	3729.4	3742.3	3754.1	3768.1	3782.2	3782.2	3784.6	3785.7
5°	3657.9	3701.3	3740.0	3756.4	3759.9	3759.9	3756.4	3737.6	3721.2	3728.3
7.5°	3603.9	3667.3	3700.1	3694.2	3649.7	3598.1	3554.7	3501.9	3474.9	3470.2
10°	3526.5	3599.3	3605.1	3546.5	3436.2	3326.0	3234.5	3145.4	3103.2	3092.6
12.5°	3440.9	3507.8	3470.2	3349.5	3172.4	3011.7	2895.6	2805.3	2765.4	2754.9
15°	3371.7	3417.5	3322.5	3132.5	2909.7	2739.6	2643.4	2576.6	2548.4	2540.2
17.5°	3335.4	3344.8	3171.2	2914.4	2677.5	2535.5	2475.7	2444.1	2433.5	2427.6
20°	3353.0	3287.3	3026.9	2711.5	2487.5	2387.8	2373.7	2365.5	2363.1	2359.6
22.5°	3440.9	3269.7	2894.4	2519.1	2320.9	2277.5	2289.3	2288.1	2285.7	2283.4
25°	3598.1	3284.9	2765.4	2336.2	2181.4	2172.0	2193.1	2193.1	2183.7	2183.7
27.5°	3805.7	3316.6	2621.2	2162.6	2054.7	2055.9	2072.3	2067.6	2057.1	2050.0
30°	4059.0	3336.6	2452.3	2006.6	1936.3	1931.6	1936.3	1916.3	1884.7	1882.3
32.5°	4318.2	3311.9	2256.4	1868.2	1810.8	1800.2	1796.7	1768.5	1732.2	1721.6
35°	4552.7	3221.6	2057.1	1758.0	1691.1	1667.7	1684.1	1674.7	1641.9	1633.7
37.5°	4723.9	3053.9	1877.6	1660.7	1605.5	1599.7	1610.2	1613.7	1575.0	1566.8
40°	4838.9	2826.4	1724.0	1578.6	1589.1	1566.8	1531.6	1507.0	1495.3	1491.8
42.5°	4931.5	2589.5	1595.0	1539.9	1592.6	1528.1	1451.9	1412.0	1433.1	1442.5
45°	5038.3	2358.5	1487.1	1491.8	1575.0	1483.6	1396.8	1358.1	1366.3	1368.6
47.5°	5184.8	2077.0	1371.0	1414.4	1516.4	1453.1	1362.8	1307.6	1268.9	1251.4
50°	5387.7	1743.9	1250.2	1327.6	1458.9	1430.8	1310.0	1251.4	1179.8	1163.4
52.5°	5528.5	1433.1	1150.5	1254.9	1407.3	1386.2	1267.8	1191.5	1116.5	1102.4
55°	5452.2	1190.4	1063.7	1173.9	1339.3	1331.1	1232.6	1130.6	1071.9	1060.2
57.5°	5071.1	1036.7	996.9	1097.7	1256.0	1284.2	1185.7	1079.0	1036.7	1028.5
60°	4344.0	940.6	954.6	1046.1	1188.0	1237.3	1138.8	1050.8	1022.7	1016.8
62.5°	3370.6	876.1	923.0	1008.6	1135.2	1204.4	1113.0	1047.3	1036.7	1029.7
65°	2414.7	824.5	889.0	971.1	1087.2	1173.9	1103.6	1042.6	1044.9	1039.1
67.5°	1640.7	778.7	847.9	928.8	1040.3	1147.0	1090.7	1026.2	1055.5	1048.5
70°	1148.1	734.2	799.8	874.9	981.6	1109.4	1067.2	1001.6	999.2	971.1
72.5°	896.0	675.5	734.2	799.8	906.6	1056.7	1020.3	946.4	907.7	878.4
73°	855.0	661.4	717.7	783.4	890.1	1043.8	1007.4	931.2	887.8	860.8
75°	707.2	600.5	652.1	710.7	819.8	982.8	944.1	862.0	806.9	790.5
77.5°	555.9	513.7	562.9	615.7	722.4	893.7	850.3	771.7	741.2	727.1
80°	411.6	425.7	469.1	516.0	626.3	798.7	760.0	681.4	817.4	783.4
82.5°	289.7	322.5	362.4	404.6	525.4	706.0	659.1	578.2	598.1	497.3
85°	171.2	211.1	248.6	285.0	378.8	585.2	544.2	460.9	377.6	360.0
87.5°	99.7	117.3	127.8	165.4	260.4	441.0	383.5	341.3	195.9	132.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)