

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: McGRAW-EDISON

Report Number: P528657

Luminaire Tested: **GALN-SA3D-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528657
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-730-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13910 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

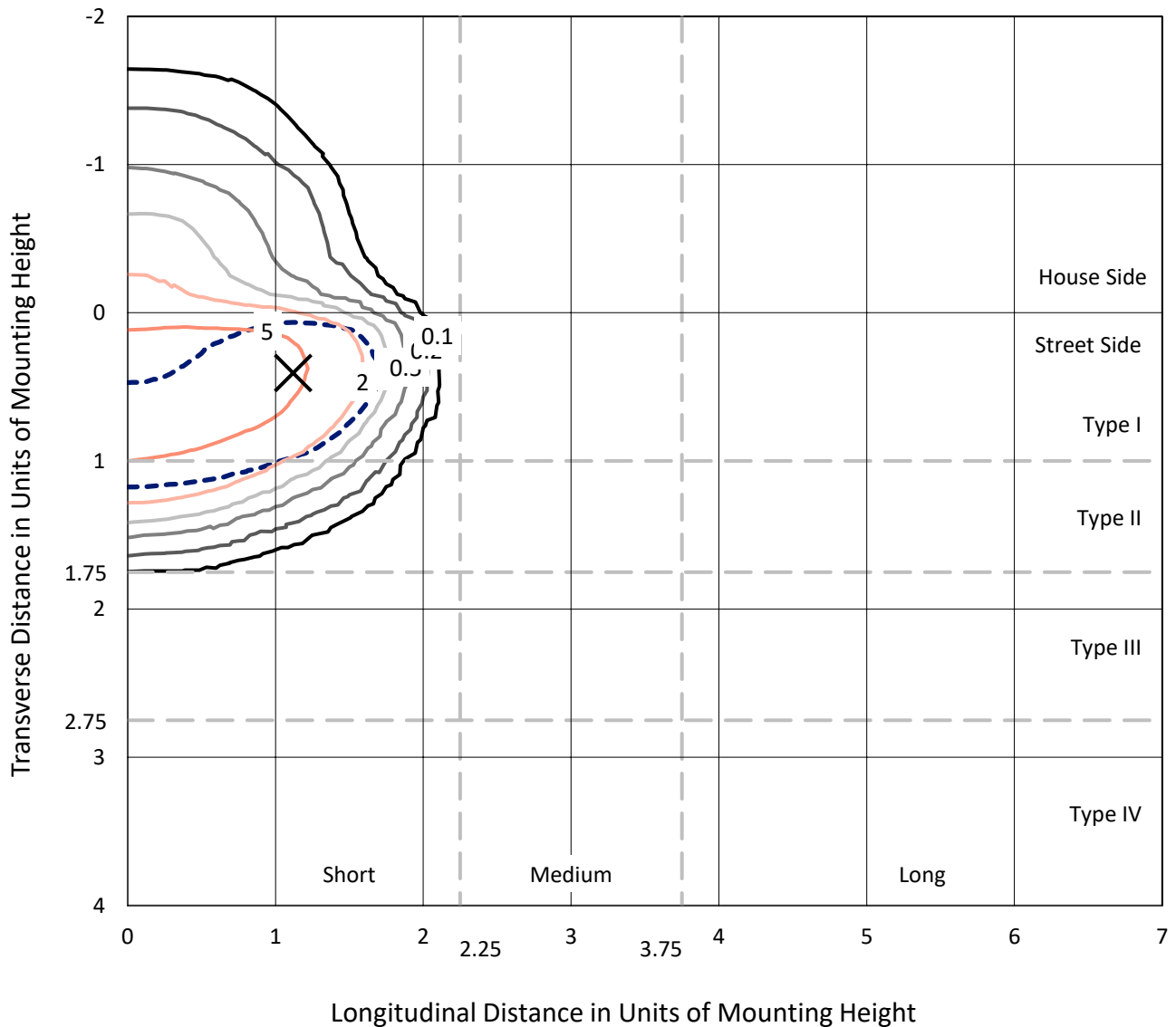
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

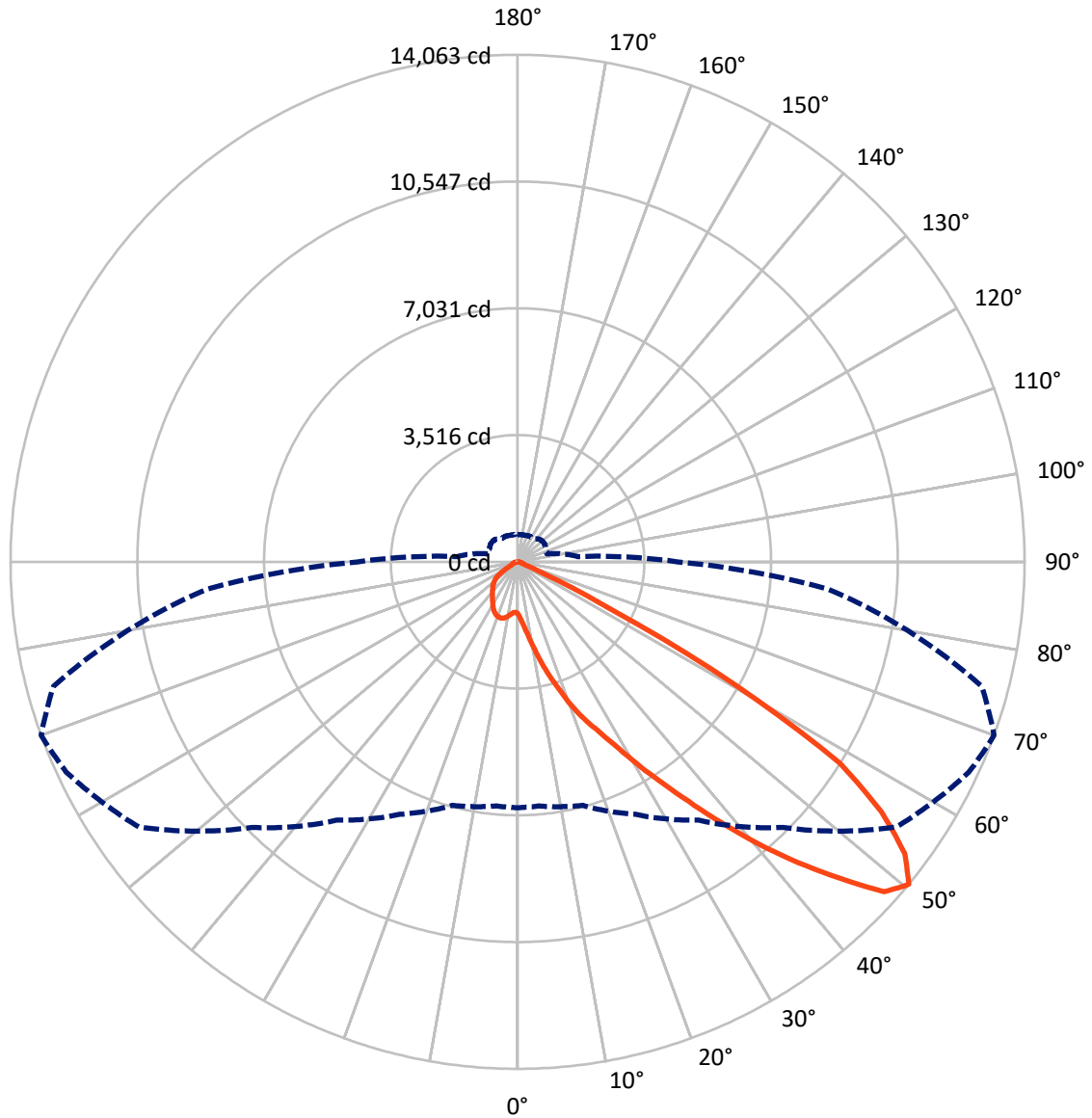
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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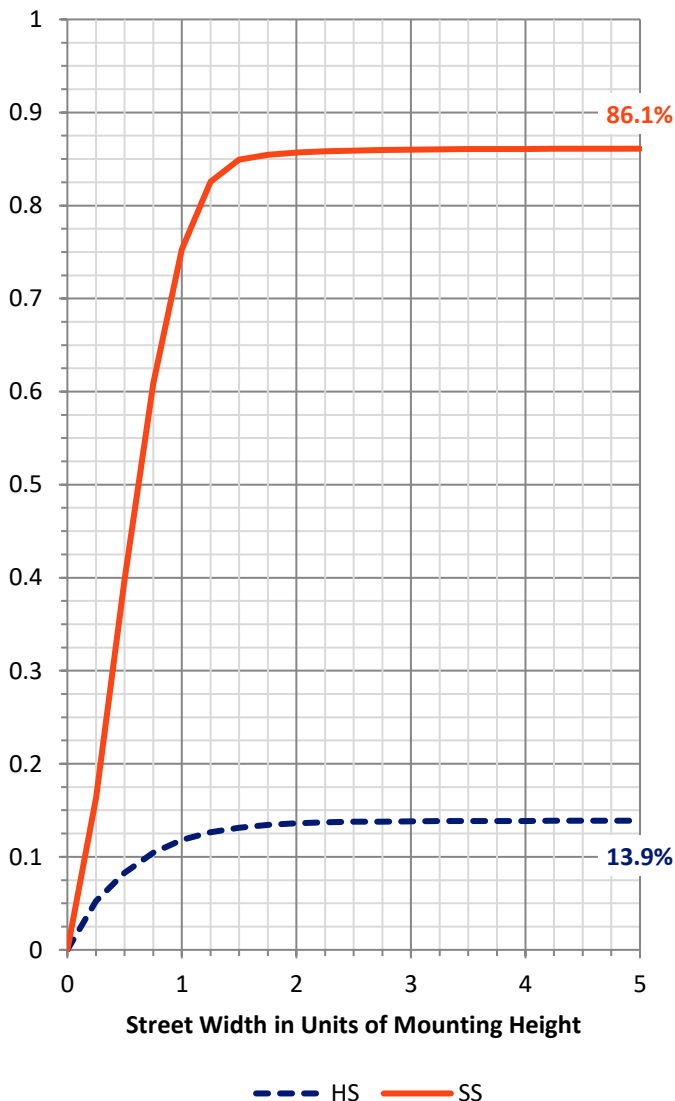
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1942.6	0.0	1942.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	11967.4	0.0	11967.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	13910.0	0.0	13910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.4	1.3
10°-20°	810.4	5.8
20°-30°	1700.2	12.2
30°-40°	2930.5	21.1
40°-50°	4282.9	30.8
50°-60°	3335.7	24.0
60°-70°	565.2	4.1
70°-80°	77.6	0.6
80°-90°	20.1	0.1
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°	13910.0	100.0
0°-180°	13910.0	100.0

Coefficient of Utilization

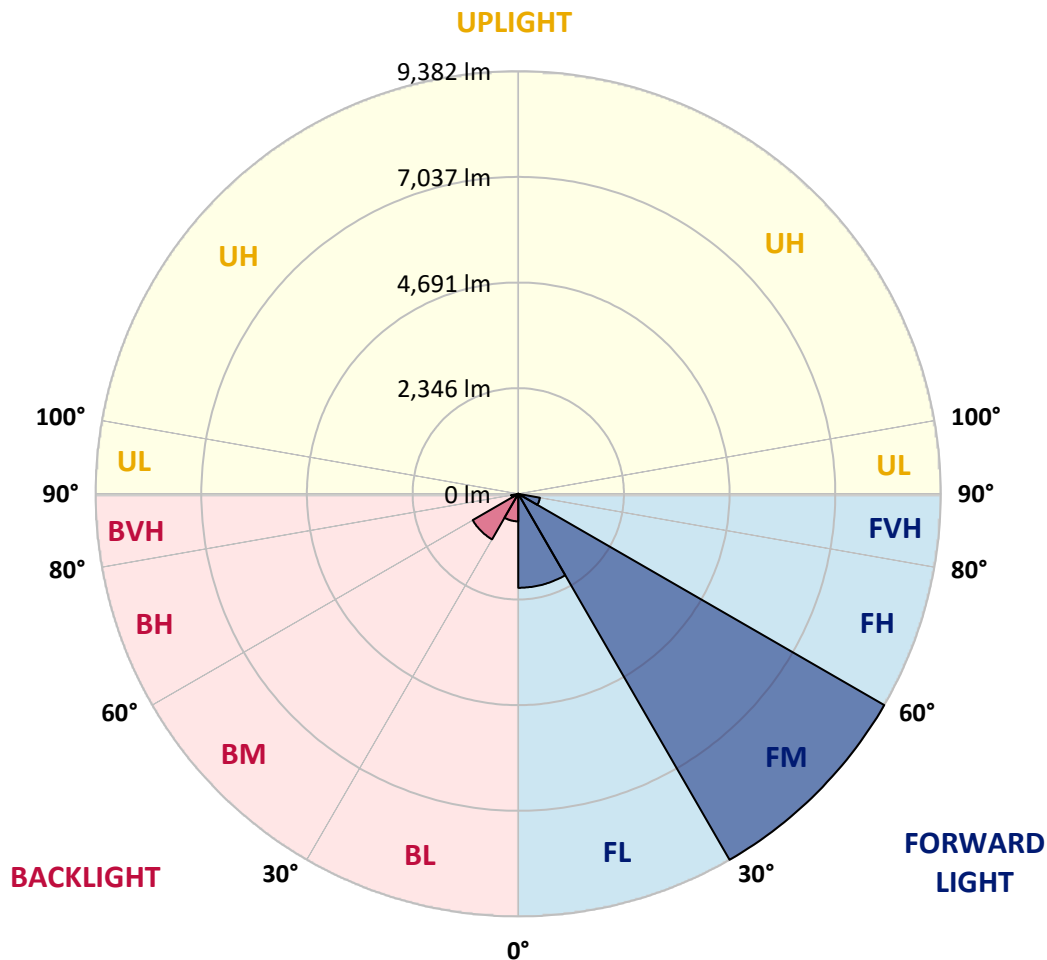


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2086.7	15.0			
FM (30°-60°)	9382.1	67.4			
FH (60°-80°)	489.4	3.5			G0/660
FVH (80°-90°)	9.3	0.1			G0/10
BL (0°-30°)	611.3	4.4	B2/1000		
BM (30°-60°)	1167.1	8.4	B2/2500		
BH (60°-80°)	153.4	1.1	B1/500		G1/500
BVH (80°-90°)	10.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8
2.5°	1886.8	1873.0	1843.3	1788.4	1765.6	1710.7	1678.6	1616.9	1578.0	1534.6	1486.5
5°	2657.5	2586.6	2543.1	2481.4	2300.7	2188.6	2003.4	1845.6	1772.4	1692.4	1582.6
7.5°	3453.4	3407.6	3348.1	3215.5	3092.0	2858.7	2540.8	2193.2	2044.6	1907.3	1690.1
10°	4112.0	3983.9	3977.1	3878.7	3743.8	3464.8	3082.9	2650.6	2385.3	2184.1	1843.3
12.5°	4571.7	4455.1	4507.7	4496.2	4370.4	4114.3	3672.9	3101.2	2824.4	2511.1	2001.1
15°	4990.2	4942.2	4926.2	4912.4	4862.1	4672.3	4276.7	3650.0	3249.8	2872.5	2179.5
17.5°	5399.6	5276.1	5335.5	5347.0	5342.4	5170.9	4800.4	4171.5	3700.3	3254.4	2367.0
20°	5763.2	5774.6	5694.6	5678.6	5664.9	5658.0	5296.7	4688.3	4253.8	3654.6	2611.7
22.5°	6229.8	6149.7	6220.6	6174.9	6085.7	6030.8	5754.1	5145.7	4734.1	4137.2	2861.0
25°	6780.9	6845.0	6678.0	6659.7	6561.4	6371.5	6122.3	5658.0	5196.0	4585.4	3130.9
27.5°	7460.2	7348.1	7304.6	7204.0	7025.6	6945.6	6652.8	6186.3	5754.1	5056.5	3391.6
30°	8043.3	8013.6	7796.3	7677.4	7521.9	7519.6	7110.2	6902.1	6481.3	5795.2	3750.7
32.5°	8519.0	8388.7	8308.6	8226.3	8100.5	8134.8	7789.5	7679.7	7256.6	6481.3	4173.8
35°	8836.9	8743.2	8695.1	8569.3	8532.8	8686.0	8541.9	8496.2	8148.5	7446.4	4670.0
37.5°	8937.5	8967.3	8958.1	8800.3	8878.1	9292.0	9477.3	9358.4	9175.4	8464.1	5207.5
40°	9026.7	9047.3	9001.6	9186.8	9408.7	9879.8	10549.9	10353.2	10284.6	9495.6	5955.3
42.5°	9077.1	9061.0	9061.0	9381.2	9717.4	10664.2	11585.9	11455.5	11402.9	10593.3	6819.8
45°	8859.8	8704.3	8871.2	9305.8	9982.7	11050.7	12413.8	12594.4	12519.0	11899.2	7830.6
47.5°	8047.9	8144.0	8237.7	8818.6	9660.2	10931.8	12921.5	13536.7	13676.2	12996.9	8493.9
50°	6819.8	6799.2	6993.6	7725.4	8747.7	10419.5	12823.1	13808.8	14062.7	13326.3	8633.4
52.5°	4960.5	5111.4	5321.8	6049.1	7261.2	9093.1	11553.9	13106.7	13445.2	12921.5	8541.9
55°	2888.5	2721.5	3194.9	3810.1	4953.6	6858.7	9767.7	11617.9	12244.5	12185.1	8079.9
57.5°	1157.2	1120.6	1283.0	1729.0	2584.3	4251.5	7103.4	9545.9	10549.9	11160.5	7101.1
60°	507.7	496.3	583.2	704.4	1056.6	1959.9	3885.6	5937.0	6984.5	7798.6	4887.3
62.5°	365.9	361.3	404.8	448.2	558.0	853.0	1632.9	2392.2	2982.2	3602.0	2188.6
65°	295.0	306.5	336.2	359.1	411.7	473.4	576.3	665.5	816.5	846.2	482.6
67.5°	240.1	249.3	276.7	301.9	311.0	256.1	265.3	233.3	233.3	208.1	167.0
70°	176.1	178.4	210.4	240.1	192.1	102.9	180.7	180.7	162.4	155.5	141.8
72.5°	130.4	132.6	157.8	148.7	75.5	64.0	132.6	146.4	132.6	125.8	114.3
75°	96.1	98.3	82.3	34.3	32.0	41.2	77.8	100.6	96.1	93.8	86.9
77.5°	18.3	13.7	11.4	16.0	22.9	34.3	50.3	61.7	64.0	68.6	64.0
80°	2.3	2.3	6.9	13.7	25.2	36.6	52.6	59.5	61.7	64.0	59.5
82.5°	0.0	2.3	6.9	13.7	25.2	34.3	45.7	52.6	57.2	59.5	57.2
85°	0.0	2.3	4.6	11.4	20.6	25.2	22.9	16.0	13.7	16.0	11.4
87.5°	0.0	0.0	2.3	2.3	4.6	4.6	4.6	4.6	4.6	4.6	4.6
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°	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8	1440.8
2.5°	1459.1	1450.0	1417.9	1383.6	1353.9	1367.6	1353.9	1342.5	1347.0	1342.5	1337.9
5°	1539.1	1498.0	1429.4	1399.6	1374.5	1372.2	1365.3	1363.0	1365.3	1365.3	1344.7
7.5°	1614.6	1548.3	1475.1	1443.1	1413.4	1415.6	1399.6	1399.6	1397.3	1385.9	1381.3
10°	1729.0	1639.8	1546.0	1488.8	1452.2	1445.4	1429.4	1413.4	1413.4	1413.4	1390.5
12.5°	1854.7	1742.7	1614.6	1548.3	1504.8	1470.5	1445.4	1440.8	1415.6	1411.1	1399.6
15°	1964.5	1822.7	1660.4	1568.9	1514.0	1468.2	1429.4	1404.2	1392.8	1385.9	1376.8
17.5°	2072.0	1891.3	1685.5	1568.9	1509.4	1456.8	1415.6	1392.8	1365.3	1369.9	1351.6
20°	2216.1	1964.5	1692.4	1539.1	1466.0	1415.6	1360.8	1349.3	1333.3	1319.6	1324.2
22.5°	2355.6	2017.1	1671.8	1502.6	1397.3	1337.9	1310.4	1296.7	1289.9	1278.4	1262.4
25°	2481.4	2074.3	1639.8	1436.2	1324.2	1280.7	1255.6	1253.3	1237.3	1237.3	1207.5
27.5°	2609.5	2094.9	1584.9	1358.5	1260.1	1235.0	1223.5	1219.0	1212.1	1196.1	1175.5
30°	2755.8	2101.7	1504.8	1278.4	1203.0	1175.5	1191.5	1203.0	1173.2	1143.5	1152.6
32.5°	2877.0	2085.7	1408.8	1203.0	1161.8	1148.1	1180.1	1191.5	1157.2	1125.2	1109.2
35°	3023.4	2046.9	1315.0	1143.5	1120.6	1148.1	1175.5	1175.5	1106.9	1068.0	1058.9
37.5°	3245.2	2003.4	1228.1	1093.2	1077.2	1134.3	1170.9	1145.8	1038.3	990.3	978.8
40°	3483.1	1976.0	1143.5	1042.9	1054.3	1111.5	1132.1	1054.3	944.5	914.8	905.6
42.5°	3828.4	1921.1	1068.0	999.4	1033.7	1079.5	1079.5	940.0	898.8	882.8	880.5
45°	4258.4	1882.2	1001.7	962.8	1004.0	1015.4	978.8	880.5	850.8	846.2	848.5
47.5°	4468.8	1806.7	933.1	919.4	949.1	951.4	855.3	832.5	807.3	800.4	795.9
50°	4436.8	1671.8	843.9	862.2	903.4	880.5	779.9	784.4	761.6	759.3	747.8
52.5°	4212.6	1459.1	754.7	798.2	843.9	777.6	718.1	713.5	713.5	683.8	672.4
55°	3734.7	1175.5	647.2	702.1	757.0	654.1	638.1	633.5	622.1	594.6	587.8
57.5°	2957.1	862.2	487.1	546.6	642.6	555.7	553.5	532.9	503.1	482.6	482.6
60°	1758.7	496.3	306.5	333.9	425.4	450.5	500.9	491.7	441.4	409.4	400.2
62.5°	802.7	256.1	194.4	199.0	228.7	292.7	393.4	455.1	384.2	329.3	324.8
65°	269.9	189.8	160.1	153.2	157.8	176.1	235.6	322.5	306.5	253.9	244.7
67.5°	164.7	169.2	150.9	139.5	139.5	137.2	134.9	146.4	180.7	176.1	178.4
70°	141.8	155.5	139.5	125.8	121.2	114.3	96.1	80.0	68.6	80.0	84.6
72.5°	114.3	123.5	118.9	107.5	96.1	86.9	68.6	52.6	38.9	34.3	34.3
75°	84.6	91.5	96.1	82.3	73.2	61.7	50.3	34.3	20.6	13.7	13.7
77.5°	61.7	68.6	70.9	64.0	54.9	43.5	32.0	22.9	11.4	4.6	4.6
80°	52.6	61.7	68.6	64.0	57.2	41.2	29.7	16.0	9.1	2.3	2.3
82.5°	50.3	61.7	68.6	61.7	54.9	38.9	29.7	18.3	6.9	2.3	2.3
85°	11.4	16.0	20.6	25.2	29.7	29.7	22.9	13.7	6.9	2.3	2.3
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	2.3	2.3	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)