

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: P527254

Luminaire Tested: **GALN-SA2B-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-730-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9158 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

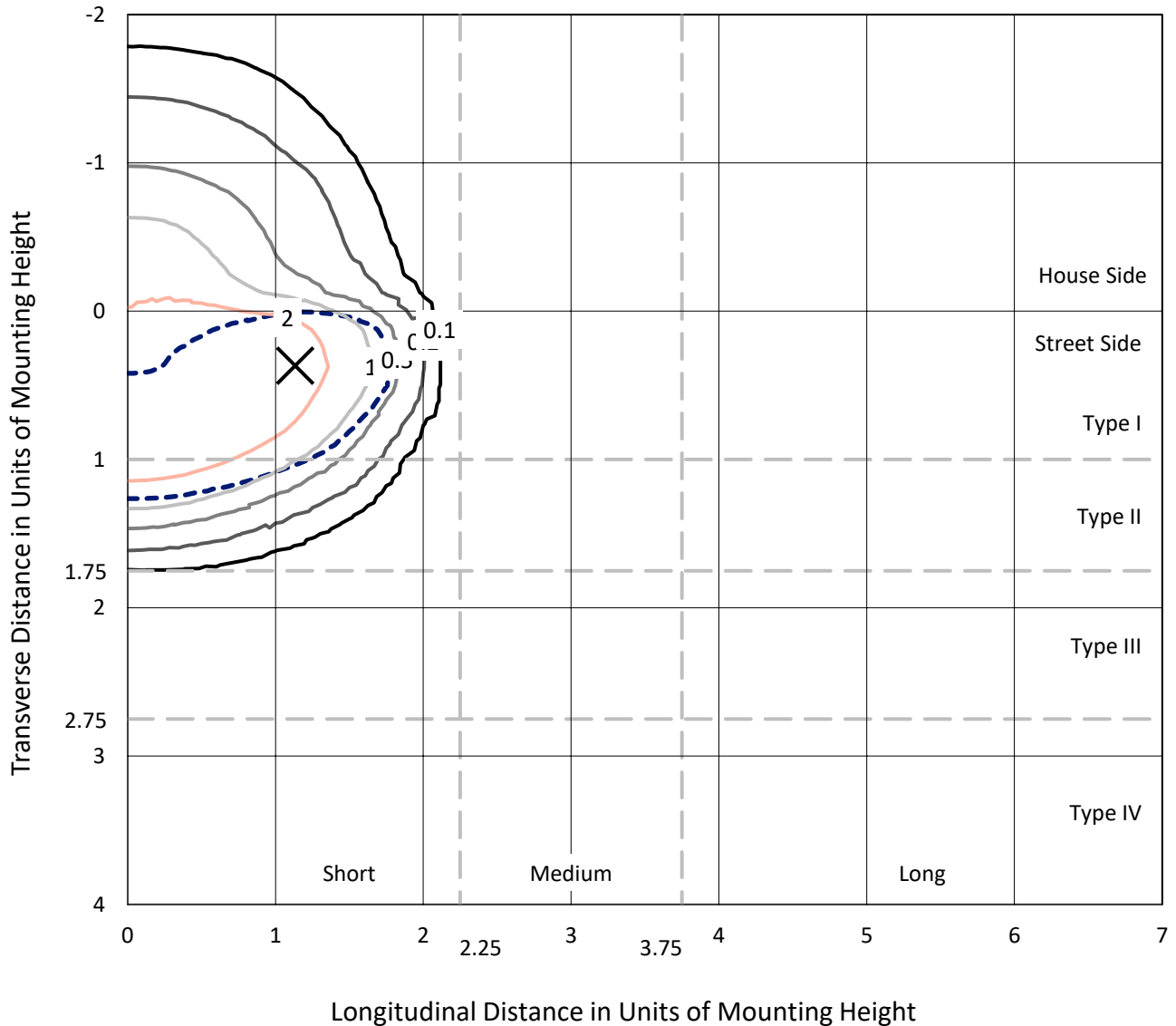
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527254
 CATALOG NUMBER: GALN-SA2B-730-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

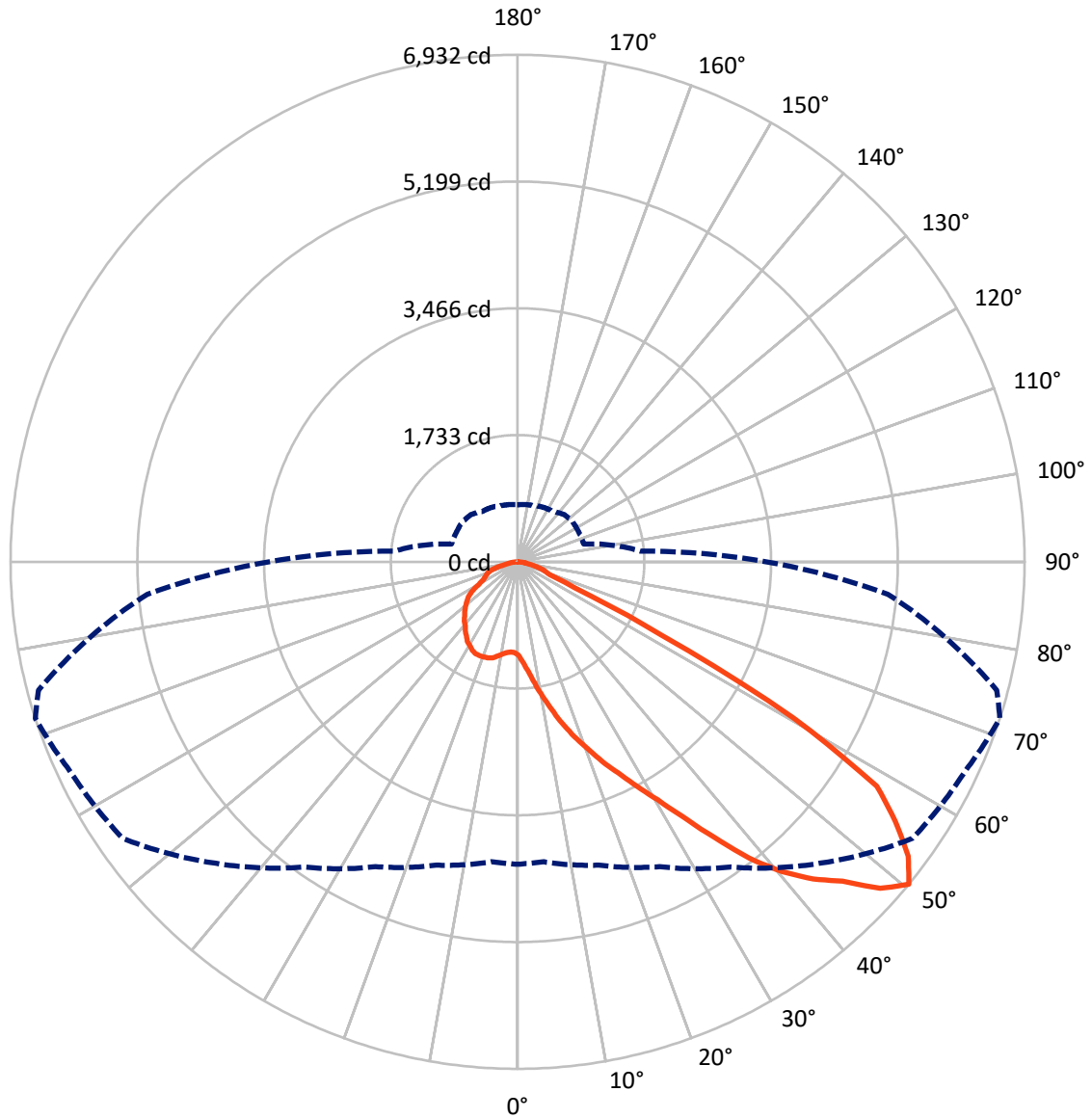
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

REPORT NUMBER: P527254
CATALOG NUMBER: GALN-SA2B-730-U-T2R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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 CATALOG NUMBER: GALN-SA2B-730-U-T2R-GRSWH

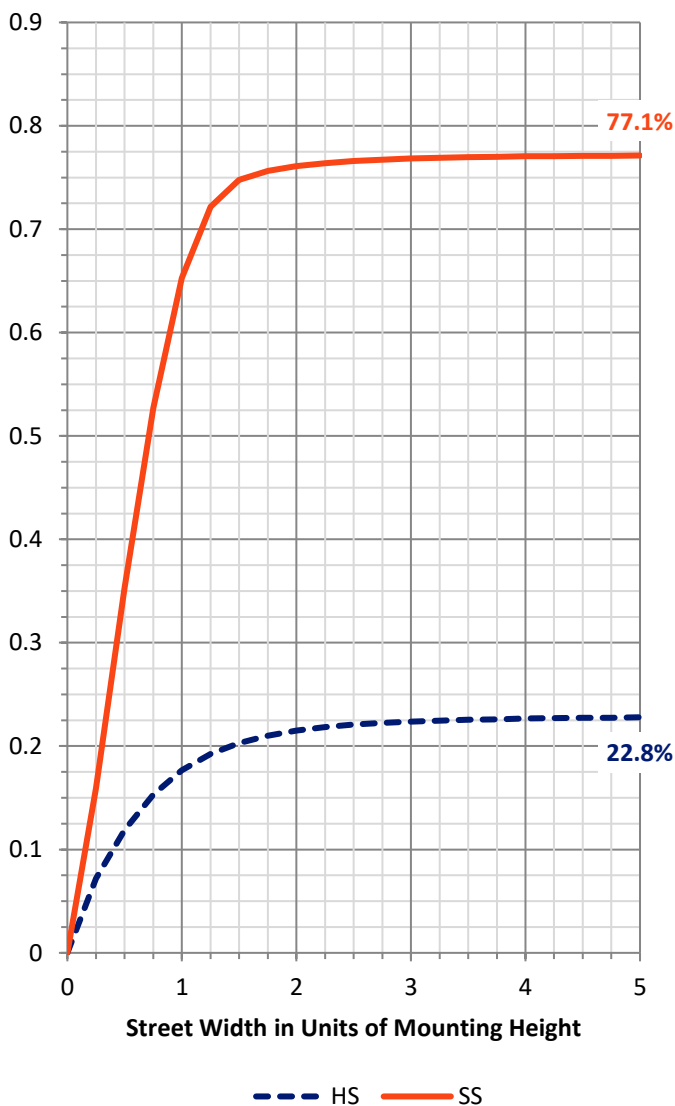
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2098.2	0.0	2098.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	7059.8	0.0	7059.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	9158.0	0.0	9158.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	1.6
10°-20°	560.6	6.1
20°-30°	1086.9	11.9
30°-40°	1800.7	19.7
40°-50°	2519.6	27.5
50°-60°	2125.6	23.2
60°-70°	647.9	7.1
70°-80°	227.3	2.5
80°-90°	39.5	0.4
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°	9158.0	100.0
0°-180°	9158.0	100.0

Coefficient of Utilization



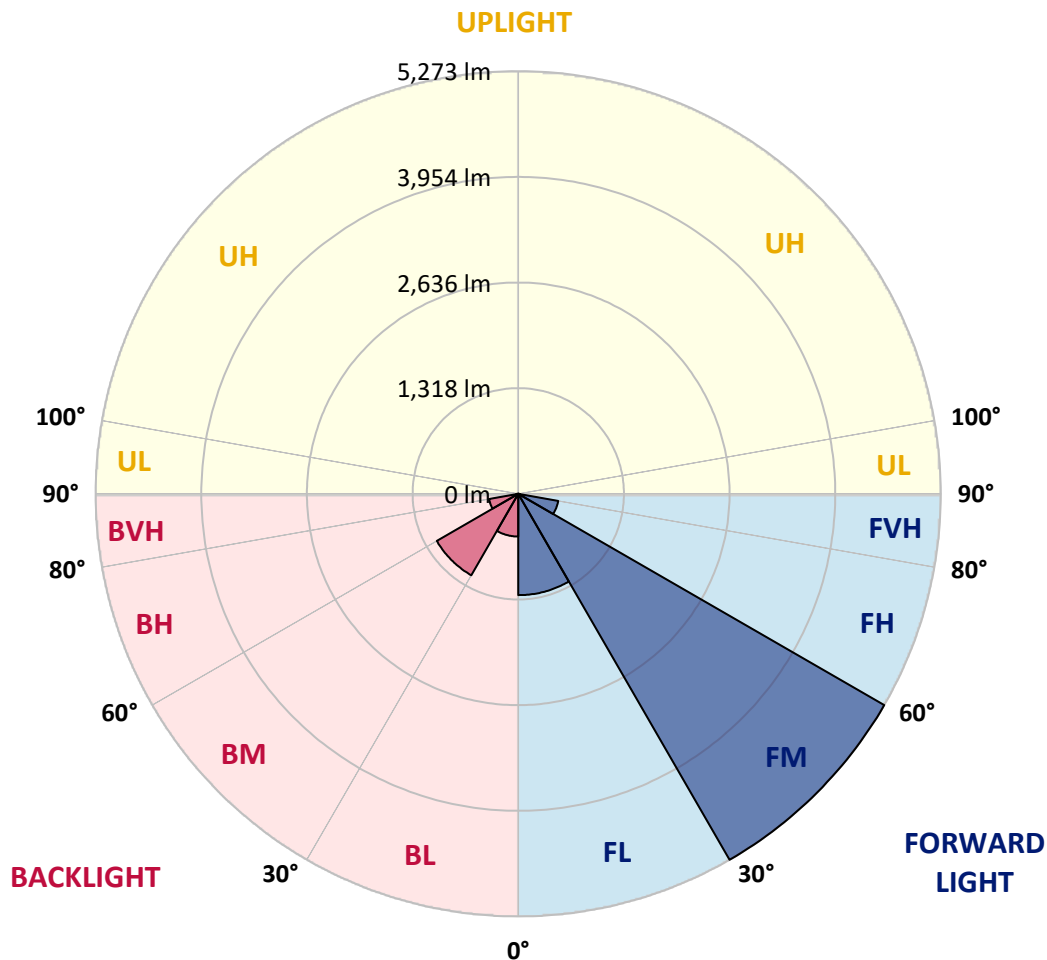
REPORT NUMBER: P527254
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1264.1	13.8			
FM (30°-60°)	5272.5	57.6			
FH (60°-80°)	505.5	5.5			G0/660
FVH (80°-90°)	17.7	0.2			G1/100
BL (0°-30°)	533.4	5.8	B2/1000		
BM (30°-60°)	1173.3	12.8	B2/2500		
BH (60°-80°)	369.7	4.0	B1/500		G1/500
BVH (80°-90°)	21.8	0.2			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 II Short





REPORT NUMBER: P527254

CATALOG NUMBER: GALN-SA2B-730-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1274.9	1274.9	1274.9	1274.9	1274.9	1274.9	1274.9	1274.9	1274.9	1274.9	1274.9
2.5°	1639.8	1629.6	1599.0	1588.8	1552.5	1486.8	1464.1	1397.3	1368.9	1342.9	1312.3
5°	2073.8	2026.2	2022.8	1965.0	1881.1	1832.4	1687.4	1589.9	1500.4	1455.1	1371.2
7.5°	2350.3	2351.4	2351.4	2303.8	2237.0	2113.5	1983.1	1807.5	1672.6	1605.8	1463.0
10°	2613.2	2590.5	2578.1	2573.5	2528.2	2408.1	2268.7	2051.1	1866.4	1788.2	1532.1
12.5°	2799.1	2779.8	2808.1	2793.4	2760.5	2682.3	2550.9	2302.7	2071.5	1966.1	1643.2
15°	2887.4	2901.0	2923.7	2964.5	2949.8	2920.3	2775.3	2561.1	2292.5	2173.5	1741.8
17.5°	3023.4	2986.0	3013.2	3064.2	3105.0	3091.4	3008.7	2748.1	2511.2	2365.0	1874.3
20°	3118.6	3097.1	3110.7	3169.6	3200.2	3277.3	3234.2	2992.8	2720.9	2566.7	2030.7
22.5°	3390.6	3358.9	3314.7	3323.7	3335.1	3389.5	3399.7	3261.4	2964.5	2801.3	2179.2
25°	3726.0	3696.6	3644.4	3591.2	3558.3	3548.1	3583.2	3472.2	3197.9	3029.1	2339.0
27.5°	4095.5	4045.6	4012.7	3902.8	3814.4	3800.8	3783.8	3723.8	3474.5	3292.0	2519.1
30°	4454.7	4415.0	4370.8	4195.2	4103.4	4088.7	4004.8	4021.8	3774.8	3571.9	2723.1
32.5°	4726.7	4730.1	4629.2	4496.6	4410.5	4332.3	4301.7	4350.4	4160.0	3996.9	2950.9
35°	4946.5	4956.7	4860.4	4740.3	4647.3	4701.7	4688.1	4710.8	4620.1	4420.7	3216.1
37.5°	5160.7	5109.7	5006.6	4948.8	4900.0	4989.6	5105.2	5124.4	5141.4	4906.8	3524.3
40°	5195.8	5200.3	5140.3	5181.1	5119.9	5254.7	5523.3	5498.4	5567.5	5362.4	3858.6
42.5°	5145.9	5156.1	5179.9	5237.7	5385.1	5547.1	5946.0	5844.0	5927.9	5745.4	4183.8
45°	5064.4	5022.4	5051.9	5271.7	5526.7	5887.1	6332.4	6253.1	6225.9	6072.9	4571.4
47.5°	4674.5	4717.6	4809.4	5080.2	5463.3	5946.0	6606.7	6588.5	6670.1	6562.5	4923.8
50°	4134.0	4117.0	4293.8	4598.6	5092.7	5830.4	6591.9	6756.3	6931.9	6782.3	5081.4
52.5°	3096.0	3186.6	3338.5	3717.0	4421.8	5200.3	6270.1	6544.3	6687.1	6655.4	4954.4
55°	1957.1	1984.3	2076.1	2525.9	3160.5	4173.6	5374.9	6010.6	6265.6	6384.6	4837.7
57.5°	950.8	899.8	1012.0	1373.5	1825.6	2807.0	4145.3	5235.5	5789.6	6004.9	4583.9
60°	496.4	515.6	559.8	689.0	944.0	1457.3	2583.7	3489.2	4335.7	4666.6	3474.5
62.5°	411.4	418.2	447.6	512.2	627.8	838.6	1319.1	1701.0	2210.9	2508.9	1976.3
65°	349.0	352.4	384.2	427.2	500.9	590.4	678.8	710.5	860.1	882.8	702.6
67.5°	291.2	294.6	328.6	369.4	417.0	440.8	463.5	461.2	478.2	471.4	470.3
70°	224.4	227.8	262.9	306.0	329.8	316.2	386.4	402.3	409.1	414.8	423.8
72.5°	162.1	168.8	196.0	226.6	214.2	245.9	318.4	342.2	351.3	354.7	366.0
75°	117.9	120.1	126.9	117.9	136.0	171.1	224.4	253.8	265.2	268.6	285.6
77.5°	52.1	53.3	54.4	68.0	87.3	106.5	133.7	157.5	173.4	177.9	182.4
80°	27.2	28.3	35.1	46.5	62.3	78.2	97.5	111.1	121.3	122.4	126.9
82.5°	17.0	18.1	24.9	32.9	44.2	57.8	71.4	82.7	90.7	91.8	92.9
85°	7.9	10.2	14.7	20.4	29.5	37.4	38.5	32.9	35.1	36.3	34.0
87.5°	2.3	3.4	4.5	3.4	4.5	4.5	5.7	6.8	6.8	6.8	7.9
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°	1274.9	1274.9	1274.9	1274.9	1274.9	1274.9	1274.9	1274.9	1274.9	1274.9	1274.9
2.5°	1295.3	1285.1	1245.4	1230.7	1192.1	1198.9	1178.5	1177.4	1172.9	1171.7	1170.6
5°	1327.0	1295.3	1247.7	1211.4	1189.9	1187.6	1172.9	1172.9	1177.4	1180.8	1172.9
7.5°	1379.1	1342.9	1262.4	1228.4	1209.1	1205.7	1195.5	1187.6	1197.8	1194.4	1185.3
10°	1439.2	1375.7	1290.7	1261.3	1229.5	1221.6	1221.6	1225.0	1208.0	1213.7	1204.6
12.5°	1506.0	1421.1	1327.0	1293.0	1255.6	1251.1	1248.8	1223.9	1232.9	1228.4	1205.7
15°	1591.0	1473.2	1373.5	1315.7	1283.9	1263.5	1234.1	1229.5	1223.9	1212.5	1202.3
17.5°	1682.8	1529.8	1395.0	1322.5	1274.9	1260.1	1237.5	1213.7	1196.7	1198.9	1191.0
20°	1761.0	1582.0	1402.9	1329.3	1268.1	1239.7	1204.6	1189.9	1171.7	1170.6	1169.5
22.5°	1853.9	1652.2	1414.3	1311.1	1247.7	1218.2	1194.4	1168.3	1155.9	1140.0	1148.0
25°	1965.0	1679.4	1416.5	1300.9	1232.9	1180.8	1168.3	1140.0	1135.5	1112.8	1117.4
27.5°	2045.5	1694.2	1398.4	1269.2	1198.9	1159.3	1136.6	1116.2	1108.3	1091.3	1086.8
30°	2153.1	1716.8	1359.9	1229.5	1164.9	1120.8	1107.2	1102.6	1080.0	1061.8	1059.6
32.5°	2275.5	1731.6	1334.9	1188.7	1129.8	1095.8	1102.6	1081.1	1052.8	1036.9	1032.4
35°	2373.0	1737.2	1272.6	1142.3	1106.0	1084.5	1076.6	1072.0	1031.2	1016.5	1005.2
37.5°	2521.4	1724.8	1220.5	1109.4	1080.0	1072.0	1065.2	1034.6	988.2	966.6	950.8
40°	2694.8	1721.4	1153.6	1063.0	1055.0	1064.1	1043.7	996.1	931.5	907.7	896.4
42.5°	2861.4	1745.2	1111.7	1038.0	1027.8	1031.2	1002.9	931.5	899.8	886.2	868.0
45°	3140.2	1795.0	1042.6	999.5	995.0	992.7	958.7	883.9	865.8	848.8	845.4
47.5°	3391.7	1762.2	998.4	959.8	964.4	951.9	879.4	855.6	835.2	818.2	812.5
50°	3406.5	1684.0	936.0	929.2	930.4	908.8	839.7	823.9	797.8	786.5	778.5
52.5°	3329.4	1555.9	878.2	880.5	883.9	848.8	791.0	779.7	758.1	742.3	737.7
55°	3113.0	1356.5	821.6	830.6	839.7	772.9	754.7	726.4	709.4	686.7	687.9
57.5°	2742.4	1092.4	742.3	757.0	776.3	702.6	689.0	653.9	628.9	610.8	608.5
60°	1838.1	777.4	623.3	628.9	672.0	642.5	641.4	606.3	572.3	556.4	547.3
62.5°	1084.5	593.8	538.3	532.6	531.5	548.5	576.8	564.3	520.1	489.6	498.6
65°	567.7	513.3	500.9	481.6	470.3	465.8	487.3	493.0	463.5	430.6	428.4
67.5°	477.1	477.1	466.9	460.1	444.2	425.0	411.4	393.2	388.7	379.6	368.3
70°	434.0	445.4	442.0	426.1	412.5	391.0	355.8	326.4	298.0	287.8	294.6
72.5°	378.5	389.8	389.8	381.9	363.8	330.9	296.9	262.9	239.1	221.0	218.7
75°	291.2	296.9	310.5	301.4	277.6	257.2	222.1	187.0	164.3	147.3	143.9
77.5°	185.8	194.9	194.9	193.8	176.8	157.5	134.9	109.9	92.9	80.5	77.1
80°	123.5	129.2	133.7	129.2	117.9	103.1	86.1	69.1	56.7	46.5	44.2
82.5°	90.7	97.5	100.9	96.3	85.0	73.7	61.2	48.7	36.3	28.3	26.1
85°	35.1	36.3	40.8	48.7	47.6	46.5	37.4	27.2	20.4	14.7	13.6
87.5°	9.1	7.9	9.1	9.1	7.9	6.8	6.8	6.8	6.8	3.4	4.5
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)