

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: P527410

Luminaire Tested: **GALN-SA2B-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527410
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-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 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: 7990 lumens
Efficiency: N/A
Efficacy: 97.4 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



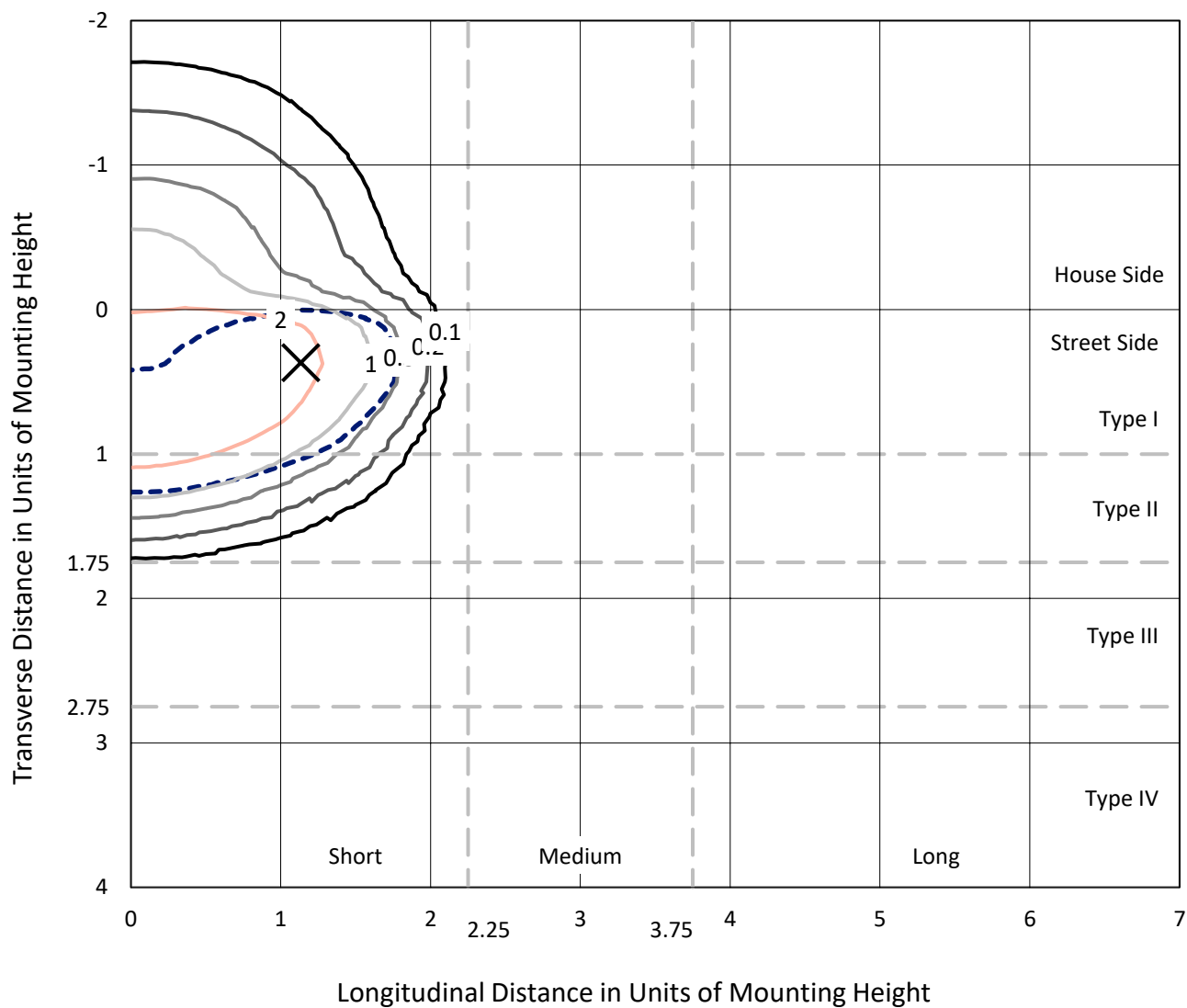
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

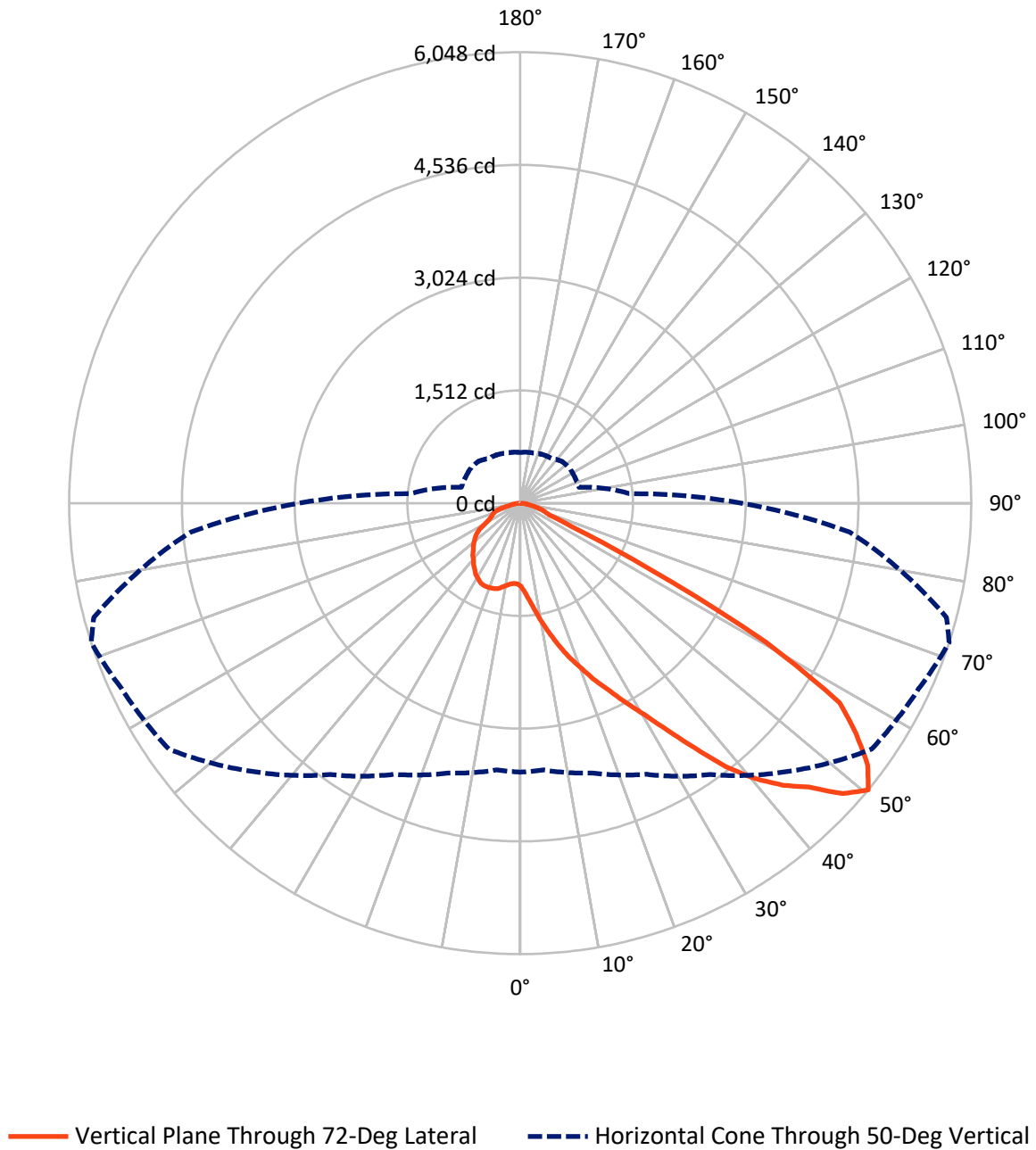


Based on 25 foot mounting height. Maximum calculated value = 4 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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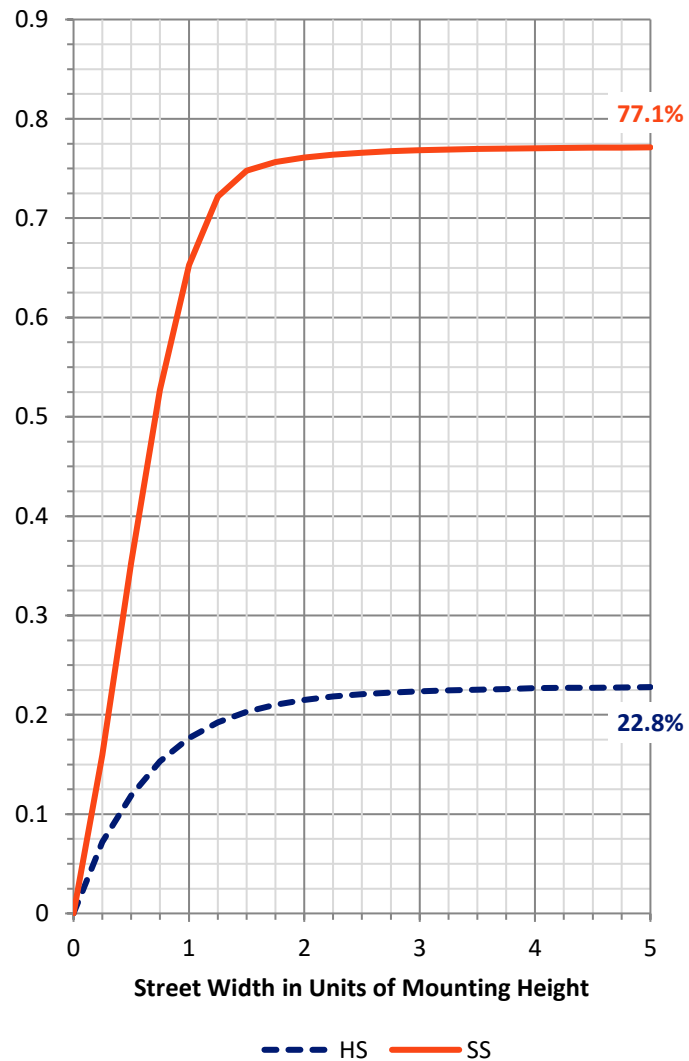
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1830.5	0.0	1830.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	6159.4	0.0	6159.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	7990.0	0.0	7990.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.8	1.6
10°-20°	489.1	6.1
20°-30°	948.3	11.9
30°-40°	1571.0	19.7
40°-50°	2198.2	27.5
50°-60°	1854.5	23.2
60°-70°	565.2	7.1
70°-80°	198.3	2.5
80°-90°	34.5	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°	7990.0	100.0
0°-180°	7990.0	100.0

Coefficient of Utilization



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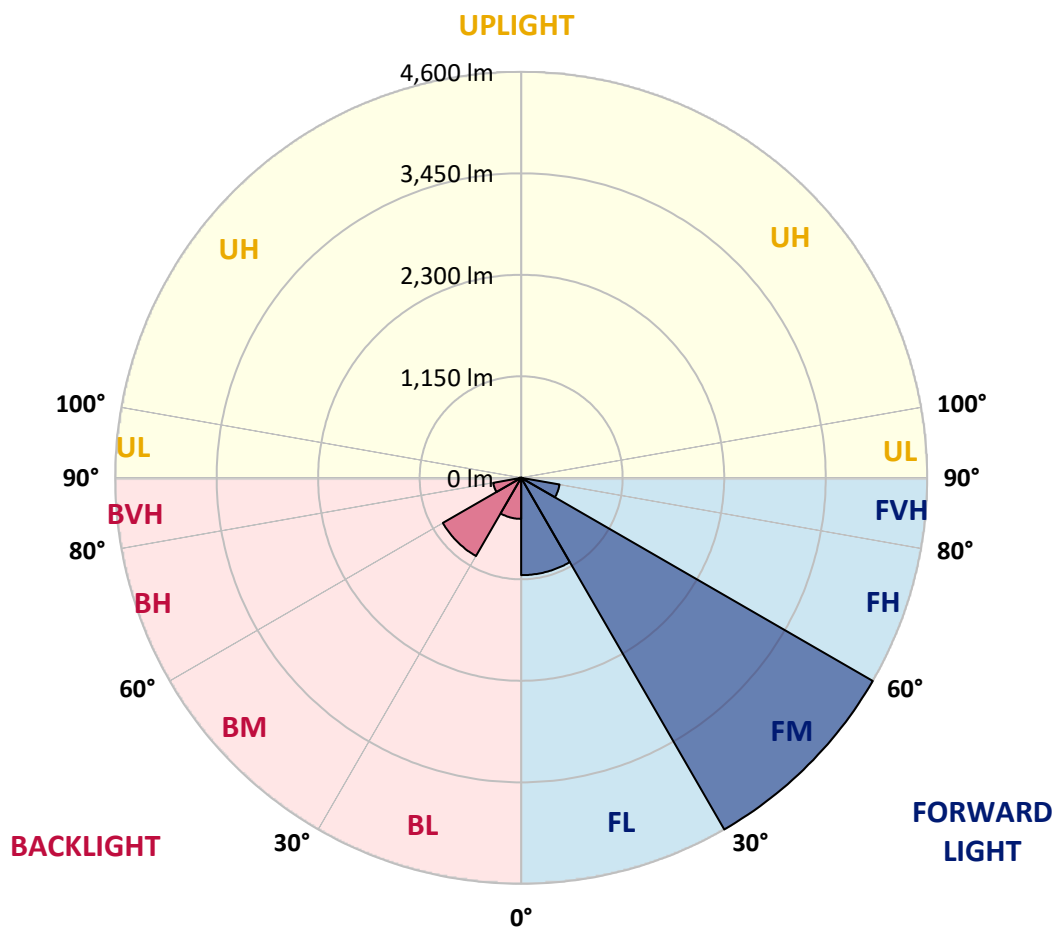
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1102.9	13.8			
FM	(30°-60°)	4600.1	57.6			
FH	(60°-80°)	441.0	5.5			G0/660
FVH	(80°-90°)	15.4	0.2			G1/100
BL	(0°-30°)	465.3	5.8	B1/500		
BM	(30°-60°)	1023.7	12.8	B2/2500		
BH	(60°-80°)	322.5	4.0	B1/500		G1/500
BVH	(80°-90°)	19.0	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3
2.5°	1430.6	1421.7	1395.0	1386.1	1354.5	1297.2	1277.4	1219.1	1194.3	1171.6	1144.9
5°	1809.3	1767.8	1764.8	1714.4	1641.2	1598.7	1472.2	1387.1	1309.0	1269.5	1196.3
7.5°	2050.5	2051.5	2051.5	2010.0	1951.7	1843.9	1730.2	1577.0	1459.3	1401.0	1276.4
10°	2279.9	2260.1	2249.3	2245.3	2205.8	2101.0	1979.4	1789.5	1628.4	1560.2	1336.7
12.5°	2442.1	2425.3	2450.0	2437.1	2408.4	2340.2	2225.5	2009.0	1807.3	1715.4	1433.6
15°	2519.2	2531.0	2550.8	2586.4	2573.6	2547.9	2421.3	2234.4	2000.1	1896.3	1519.6
17.5°	2637.8	2605.2	2628.9	2673.4	2709.0	2697.1	2625.0	2397.6	2190.9	2063.4	1635.3
20°	2720.9	2702.1	2714.0	2765.4	2792.1	2859.3	2821.7	2611.1	2373.8	2239.4	1771.7
22.5°	2958.2	2930.5	2891.9	2899.8	2909.7	2957.2	2966.1	2845.4	2586.4	2444.0	1901.3
25°	3250.8	3225.1	3179.6	3133.2	3104.5	3095.6	3126.2	3029.3	2790.1	2642.8	2040.7
27.5°	3573.1	3529.6	3501.0	3405.0	3327.9	3316.1	3301.2	3248.8	3031.3	2872.1	2197.9
30°	3886.5	3851.9	3813.4	3660.1	3580.0	3567.2	3494.0	3508.9	3293.3	3116.4	2375.8
32.5°	4123.8	4126.8	4038.8	3923.1	3848.0	3779.8	3753.1	3795.6	3629.5	3487.1	2574.5
35°	4315.6	4324.5	4240.5	4135.7	4054.6	4102.1	4090.2	4110.0	4030.9	3856.9	2805.9
37.5°	4502.5	4458.0	4368.0	4317.6	4275.1	4353.2	4454.0	4470.9	4485.7	4281.0	3074.8
40°	4533.1	4537.1	4484.7	4520.3	4466.9	4584.6	4818.9	4797.1	4857.4	4678.5	3366.5
42.5°	4489.6	4498.5	4519.3	4569.7	4698.3	4839.6	5187.7	5098.7	5171.8	5012.7	3650.2
45°	4418.5	4381.9	4407.6	4599.4	4821.8	5136.2	5524.8	5455.6	5431.9	5298.4	3988.4
47.5°	4078.3	4115.9	4196.0	4432.3	4766.5	5187.7	5764.1	5748.2	5819.4	5725.5	4295.9
50°	3606.7	3591.9	3746.1	4012.1	4443.2	5086.8	5751.2	5894.6	6047.8	5917.3	4433.3
52.5°	2701.1	2780.2	2912.7	3242.9	3857.9	4537.1	5470.4	5709.7	5834.3	5806.6	4322.6
55°	1707.5	1731.2	1811.3	2203.8	2757.5	3641.3	4689.4	5244.0	5466.5	5570.3	4220.7
57.5°	829.5	785.0	882.9	1198.3	1592.8	2449.0	3616.6	4567.7	5051.2	5239.1	3999.3
60°	433.0	449.9	488.4	601.1	823.6	1271.5	2254.2	3044.2	3782.7	4071.4	3031.3
62.5°	358.9	364.8	390.5	446.9	547.7	731.6	1150.8	1484.0	1928.9	2189.0	1724.3
65°	304.5	307.5	335.2	372.7	437.0	515.1	592.2	619.9	750.4	770.2	613.0
67.5°	254.1	257.1	286.7	322.3	363.8	384.6	404.4	402.4	417.2	411.3	410.3
70°	195.8	198.7	229.4	266.9	287.7	275.8	337.1	351.0	356.9	361.9	369.8
72.5°	141.4	147.3	171.0	197.7	186.9	214.5	277.8	298.6	306.5	309.5	319.3
75°	102.8	104.8	110.7	102.8	118.6	149.3	195.8	221.5	231.4	234.3	249.1
77.5°	45.5	46.5	47.5	59.3	76.1	92.9	116.7	137.4	151.3	155.2	159.2
80°	23.7	24.7	30.6	40.5	54.4	68.2	85.0	96.9	105.8	106.8	110.7
82.5°	14.8	15.8	21.8	28.7	38.6	50.4	62.3	72.2	79.1	80.1	81.1
85°	6.9	8.9	12.9	17.8	25.7	32.6	33.6	28.7	30.6	31.6	29.7
87.5°	2.0	3.0	4.0	3.0	4.0	4.0	4.9	5.9	5.9	5.9	6.9
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°	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3	1112.3
2.5°	1130.1	1121.2	1086.6	1073.7	1040.1	1046.0	1028.2	1027.2	1023.3	1022.3	1021.3
5°	1157.8	1130.1	1088.5	1056.9	1038.1	1036.1	1023.3	1023.3	1027.2	1030.2	1023.3
7.5°	1203.2	1171.6	1101.4	1071.7	1054.9	1052.0	1043.1	1036.1	1045.0	1042.1	1034.2
10°	1255.6	1200.3	1126.1	1100.4	1072.7	1065.8	1065.8	1068.8	1053.9	1058.9	1051.0
12.5°	1314.0	1239.8	1157.8	1128.1	1095.5	1091.5	1089.5	1067.8	1075.7	1071.7	1052.0
15°	1388.1	1285.3	1198.3	1147.9	1120.2	1102.4	1076.7	1072.7	1067.8	1057.9	1049.0
17.5°	1468.2	1334.7	1217.1	1153.8	1112.3	1099.4	1079.6	1058.9	1044.1	1046.0	1039.1
20°	1536.4	1380.2	1224.0	1159.7	1106.3	1081.6	1051.0	1038.1	1022.3	1021.3	1020.3
22.5°	1617.5	1441.5	1233.9	1143.9	1088.5	1062.8	1042.1	1019.3	1008.5	994.6	1001.5
25°	1714.4	1465.2	1235.9	1135.0	1075.7	1030.2	1019.3	994.6	990.7	970.9	974.8
27.5°	1784.6	1478.1	1220.0	1107.3	1046.0	1011.4	991.7	973.9	966.9	952.1	948.2
30°	1878.5	1497.9	1186.4	1072.7	1016.4	977.8	966.0	962.0	942.2	926.4	924.4
32.5°	1985.3	1510.7	1164.7	1037.1	985.7	956.1	962.0	943.2	918.5	904.7	900.7
35°	2070.3	1515.7	1110.3	996.6	965.0	946.2	939.3	935.3	899.7	886.9	877.0
37.5°	2199.8	1504.8	1064.8	967.9	942.2	935.3	929.4	902.7	862.1	843.4	829.5
40°	2351.1	1501.8	1006.5	927.4	920.5	928.4	910.6	869.1	812.7	791.9	782.1
42.5°	2496.4	1522.6	969.9	905.6	896.7	899.7	875.0	812.7	785.0	773.2	757.3
45°	2739.7	1566.1	909.6	872.0	868.1	866.1	836.4	771.2	755.4	740.5	737.6
47.5°	2959.1	1537.4	871.0	837.4	841.4	830.5	767.2	746.5	728.7	713.8	708.9
50°	2972.0	1469.2	816.7	810.7	811.7	792.9	732.6	718.8	696.0	686.2	679.2
52.5°	2904.8	1357.5	766.2	768.2	771.2	740.5	690.1	680.2	661.4	647.6	643.6
55°	2715.9	1183.5	716.8	724.7	732.6	674.3	658.5	633.8	618.9	599.1	600.1
57.5°	2392.6	953.1	647.6	660.4	677.3	613.0	601.1	570.5	548.7	532.9	530.9
60°	1603.7	678.2	543.8	548.7	586.3	560.6	559.6	528.9	499.3	485.4	477.5
62.5°	946.2	518.1	469.6	464.7	463.7	478.5	503.2	492.4	453.8	427.1	435.0
65°	495.3	447.9	437.0	420.2	410.3	406.4	425.1	430.1	404.4	375.7	373.7
67.5°	416.2	416.2	407.3	401.4	387.6	370.8	358.9	343.1	339.1	331.2	321.3
70°	378.7	388.6	385.6	371.7	359.9	341.1	310.4	284.7	260.0	251.1	257.1
72.5°	330.2	340.1	340.1	333.2	317.4	288.7	259.0	229.4	208.6	192.8	190.8
75°	254.1	259.0	270.9	263.0	242.2	224.4	193.8	163.1	143.4	128.5	125.6
77.5°	162.1	170.1	170.1	169.1	154.2	137.4	117.7	95.9	81.1	70.2	67.2
80°	107.8	112.7	116.7	112.7	102.8	90.0	75.1	60.3	49.4	40.5	38.6
82.5°	79.1	85.0	88.0	84.0	74.2	64.3	53.4	42.5	31.6	24.7	22.7
85°	30.6	31.6	35.6	42.5	41.5	40.5	32.6	23.7	17.8	12.9	11.9
87.5°	7.9	6.9	7.9	7.9	6.9	5.9	5.9	5.9	5.9	3.0	4.0
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)