

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: P526472

Luminaire Tested: **GALN-SA1B-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH
WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3837 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

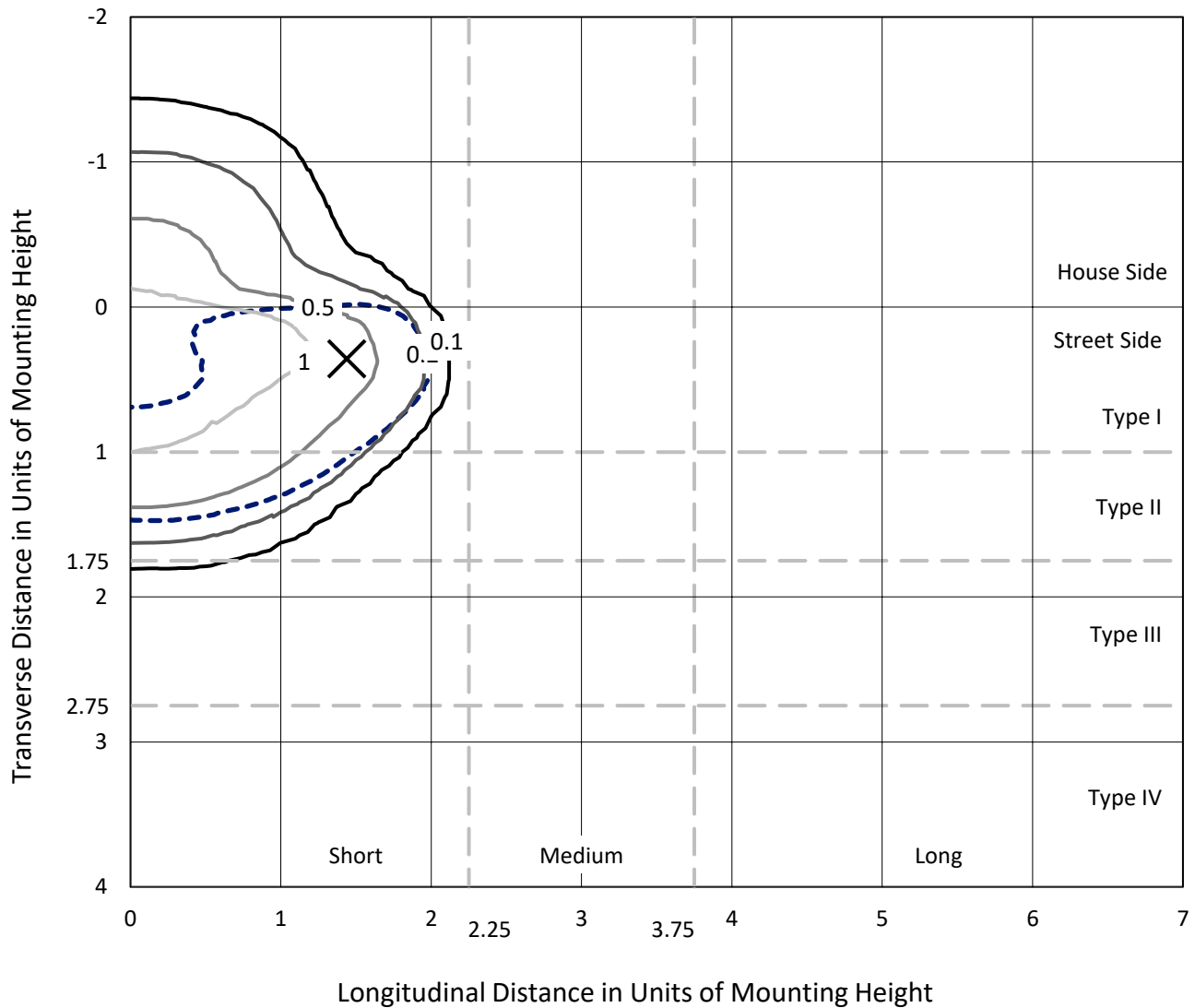


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Iso-Footcandle Lines of Horizontal Illumination

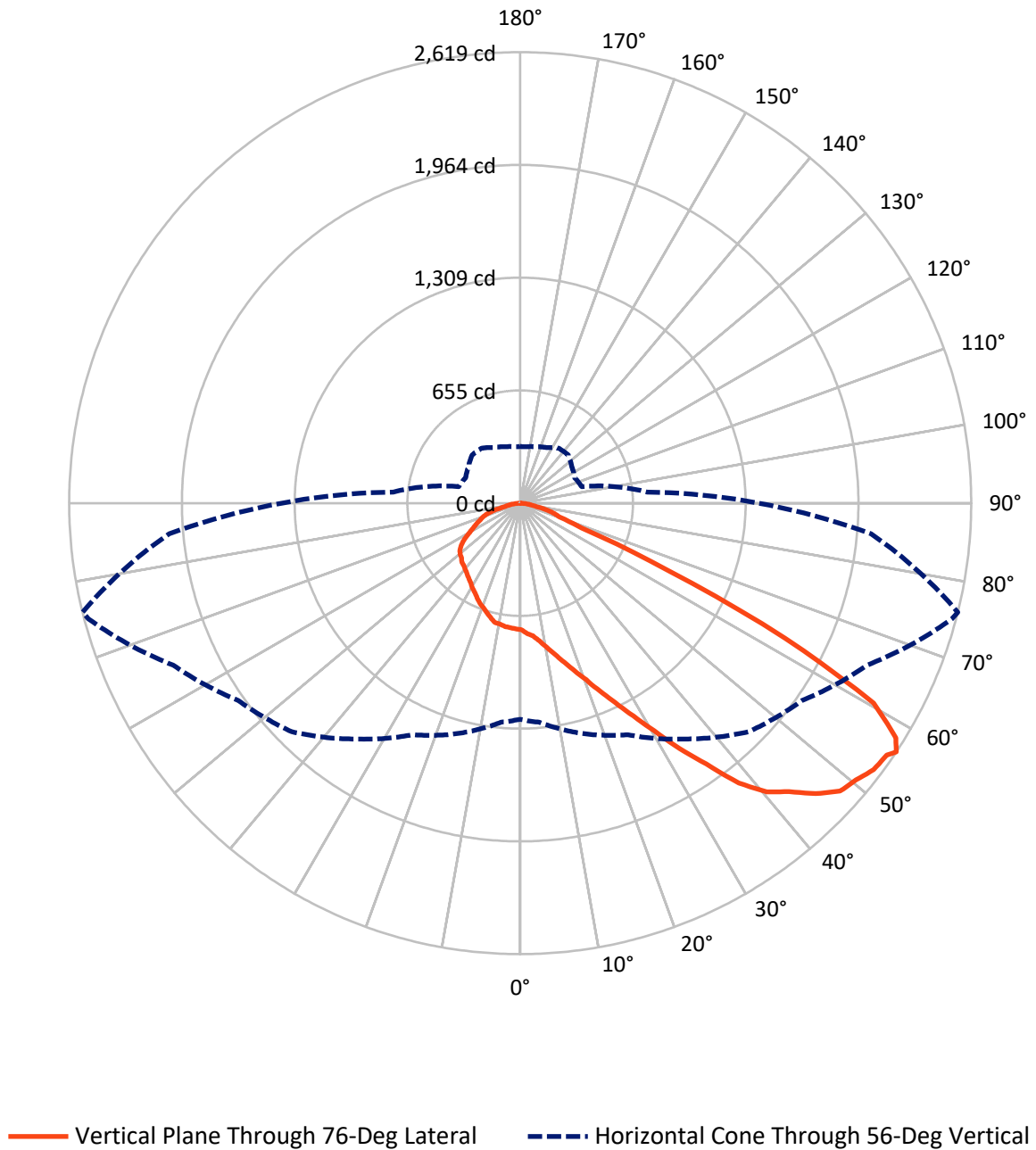
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	1031.7	0.0	1031.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	2805.3	0.0	2805.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	3837.0	0.0	3837.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	1.9
10°-20°	228.7	6.0
20°-30°	400.0	10.4
30°-40°	626.3	16.3
40°-50°	911.0	23.7
50°-60°	1001.3	26.1
60°-70°	446.9	11.6
70°-80°	129.1	3.4
80°-90°	20.9	0.5
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°	3837.0	100.0
0°-180°	3837.0	100.0

Coefficient of Utilization



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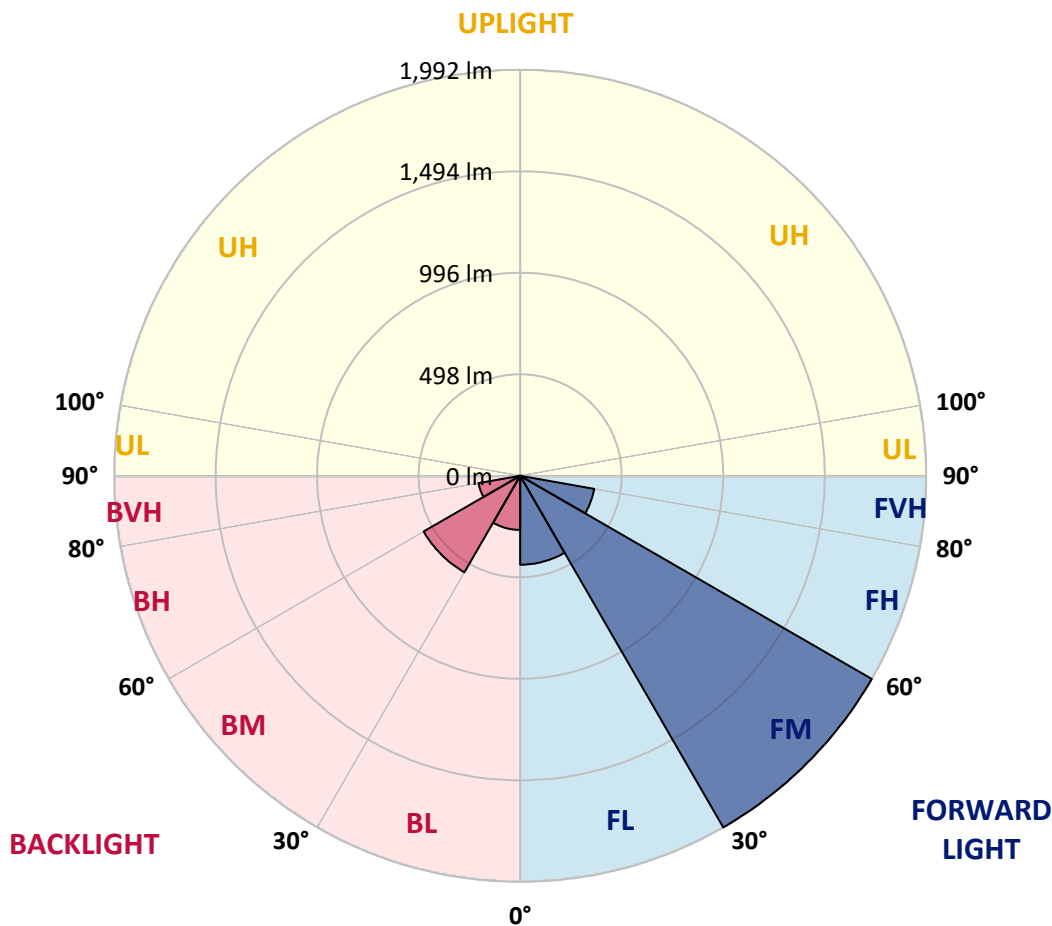
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	436.0	11.4			
FM	(30°-60°)	1991.9	51.9			
FH	(60°-80°)	368.4	9.6			G0/660
FVH	(80°-90°)	9.0	0.2			G0/10
BL	(0°-30°)	265.5	6.9	B1/500		
BM	(30°-60°)	546.7	14.2	B1/1000		
BH	(60°-80°)	207.6	5.4	B1/500		G1/500
BVH	(80°-90°)	11.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	734.2	734.2	734.2	734.2	734.2	734.2	734.2	734.2	734.2	734.2	734.2
2.5°	808.8	795.8	794.8	791.4	793.4	784.4	774.9	762.5	749.6	757.5	738.6
5°	865.5	848.1	855.0	843.1	844.6	832.6	813.2	798.8	782.9	773.5	760.0
7.5°	885.4	886.9	891.8	889.8	879.9	879.9	867.0	841.6	813.7	808.3	785.9
10°	912.2	912.7	907.3	908.7	922.7	916.2	904.8	893.8	858.0	851.5	811.8
12.5°	921.7	912.7	921.7	929.6	946.1	955.0	952.5	944.6	906.3	901.8	843.6
15°	923.2	917.7	925.2	943.1	957.5	995.3	1014.2	1008.7	958.0	958.5	879.4
17.5°	916.2	923.7	926.7	942.1	975.4	1010.7	1065.4	1072.9	1031.1	1024.6	924.7
20°	925.7	920.2	924.2	938.1	982.4	1037.6	1109.2	1158.4	1099.7	1095.3	971.4
22.5°	962.0	954.5	953.5	962.5	994.3	1051.5	1155.5	1244.0	1183.3	1185.8	1029.6
25°	990.3	994.3	990.8	990.3	1010.2	1072.4	1216.6	1346.0	1296.7	1282.3	1098.3
27.5°	1039.1	1048.5	1041.6	1051.0	1046.5	1103.7	1260.4	1458.9	1419.1	1399.7	1160.4
30°	1106.7	1111.7	1105.2	1105.2	1091.8	1147.5	1300.2	1576.8	1560.3	1534.0	1233.5
32.5°	1195.7	1203.2	1190.3	1182.8	1180.8	1212.7	1371.8	1693.1	1721.0	1698.6	1330.5
35°	1313.6	1309.2	1293.7	1286.8	1259.9	1312.6	1478.3	1826.9	1900.1	1860.3	1447.9
37.5°	1417.6	1410.6	1409.6	1370.8	1377.3	1420.6	1568.8	1928.4	2073.7	2062.2	1571.8
40°	1514.6	1521.0	1531.5	1509.6	1499.7	1547.4	1674.2	2006.0	2208.5	2204.0	1667.3
42.5°	1618.5	1612.6	1631.0	1612.6	1597.6	1665.3	1788.6	2059.7	2326.8	2290.0	1767.3
45°	1769.2	1750.3	1756.8	1758.3	1747.4	1772.2	1835.9	2098.5	2409.9	2405.9	1840.4
47.5°	1895.1	1895.6	1884.6	1876.2	1842.9	1867.7	1888.6	2122.9	2505.4	2498.9	1868.7
50°	1941.8	1935.4	1967.2	1985.6	1987.6	1936.9	1929.9	2136.3	2555.6	2527.3	1897.1
52.5°	1773.7	1779.7	1829.9	1939.4	2002.5	2008.0	1978.2	2164.2	2576.0	2570.1	1920.0
55°	1427.5	1456.4	1539.0	1665.3	1815.0	1979.6	2030.4	2193.0	2587.0	2582.0	2021.4
56°	1254.9	1277.3	1384.8	1483.7	1671.8	1876.7	1997.6	2223.9	2595.4	2618.8	2045.3
57.5°	1010.2	1036.1	1113.2	1225.6	1447.4	1680.7	1907.0	2186.1	2562.6	2571.6	2062.7
60°	631.7	634.2	726.7	800.8	957.0	1184.8	1455.4	1902.1	2371.6	2358.7	1852.8
62.5°	414.3	414.8	498.9	559.6	630.7	682.9	856.5	1261.4	1749.8	1727.0	1319.1
65°	291.0	297.4	362.6	443.7	472.5	445.2	439.7	665.0	977.4	944.6	708.8
67.5°	212.9	213.4	271.1	358.1	399.9	338.7	275.1	324.8	387.0	386.0	328.3
70°	140.8	146.7	191.0	267.6	315.4	272.1	224.8	232.3	246.2	246.2	244.2
72.5°	82.1	87.5	116.9	169.6	177.1	170.1	178.1	199.0	207.9	207.4	204.9
75°	46.8	49.2	55.7	70.6	88.0	104.0	130.8	150.7	159.7	165.1	158.7
77.5°	27.4	28.8	32.8	40.3	45.8	56.2	71.1	85.1	97.0	95.5	96.5
80°	14.4	14.4	18.4	23.9	31.8	39.8	47.3	55.2	61.7	63.2	64.7
82.5°	8.5	9.0	11.9	17.4	22.9	28.4	36.3	41.8	47.8	48.2	49.2
85°	4.5	5.0	7.5	11.4	15.4	17.4	17.9	16.9	18.4	17.4	19.9
87.5°	1.5	1.5	2.5	2.0	2.0	2.5	3.0	3.0	4.0	4.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	734.2	734.2	734.2	734.2	734.2	734.2	734.2	734.2	734.2	734.2	734.2
2.5°	738.1	738.1	729.7	713.8	711.3	704.8	698.8	698.3	693.9	689.9	687.9
5°	752.1	736.6	724.2	709.8	692.9	684.9	676.0	666.0	662.0	666.0	665.5
7.5°	768.0	755.1	717.7	690.9	671.5	663.5	653.6	643.1	644.1	644.1	637.2
10°	783.4	766.0	706.3	672.0	643.6	637.7	632.2	636.2	641.1	642.1	637.7
12.5°	809.3	770.0	700.8	653.1	635.2	622.2	625.7	636.7	647.1	644.1	647.6
15°	828.7	773.5	676.0	633.7	611.3	617.3	629.7	637.2	654.6	652.6	656.1
17.5°	847.6	775.4	651.6	607.8	598.4	614.8	624.2	645.6	651.1	663.0	667.5
20°	886.4	779.4	626.7	591.9	588.9	607.8	624.2	634.2	646.1	656.6	656.6
22.5°	906.3	777.4	610.3	571.0	580.5	592.4	607.3	624.2	624.2	634.2	634.7
25°	931.1	769.5	584.4	561.1	568.0	579.5	596.4	590.4	596.9	596.9	604.8
27.5°	959.5	752.6	562.1	543.2	557.1	569.5	572.0	568.0	560.6	559.6	556.6
30°	982.4	731.7	545.6	537.2	548.6	555.6	547.6	539.2	526.2	525.3	518.3
32.5°	1013.7	705.8	525.3	522.3	535.2	535.7	533.2	520.3	501.4	493.4	485.5
35°	1066.4	690.9	509.8	514.3	518.3	516.8	512.3	498.4	479.5	476.0	473.0
37.5°	1105.2	679.9	493.9	499.4	502.9	504.9	491.4	476.0	476.5	469.5	467.6
40°	1149.0	673.0	481.0	483.5	484.0	490.4	474.0	466.6	470.0	465.6	468.5
42.5°	1205.2	675.0	467.6	465.6	475.0	472.5	464.6	454.6	456.6	443.2	445.2
45°	1235.0	688.4	459.6	450.6	461.1	460.6	450.1	440.7	428.8	402.9	403.9
47.5°	1254.9	691.9	440.7	434.7	445.7	452.1	440.2	418.3	401.4	383.0	378.5
50°	1275.3	698.3	431.7	419.3	423.8	439.2	424.3	403.4	387.0	370.6	373.0
52.5°	1293.2	710.8	414.3	395.9	403.9	420.8	412.8	387.5	369.6	356.1	352.2
55°	1372.8	738.6	385.0	361.1	380.0	401.4	396.9	366.1	346.7	339.7	338.7
56°	1385.3	739.6	369.6	349.2	366.6	394.9	389.5	356.6	339.2	328.3	328.8
57.5°	1387.2	727.7	347.7	338.2	353.2	385.5	378.5	349.2	325.3	315.4	312.4
60°	1220.6	568.0	320.3	314.4	331.8	356.6	354.1	328.8	301.9	290.5	296.0
62.5°	832.1	416.3	298.9	297.9	306.9	331.3	324.8	301.9	279.5	272.1	268.6
65°	484.5	315.8	278.0	274.1	281.5	294.5	298.9	275.1	251.7	246.7	245.2
67.5°	286.0	261.1	251.2	244.7	242.2	250.2	253.7	239.7	216.4	209.4	215.4
70°	239.2	232.3	232.8	221.8	215.9	210.4	207.4	195.0	175.6	166.6	164.1
72.5°	206.4	203.4	201.4	191.5	186.0	173.6	160.7	148.2	133.8	126.3	126.8
75°	157.7	156.7	157.7	152.7	143.3	133.3	121.4	105.4	94.5	85.1	87.0
77.5°	94.0	97.0	98.5	96.5	92.5	83.6	76.1	65.7	55.2	47.8	46.8
80°	64.7	67.1	69.6	67.1	63.2	56.7	48.7	40.8	33.3	29.3	28.4
82.5°	49.2	51.7	53.2	50.7	45.8	38.8	33.3	27.9	21.9	17.9	16.9
85°	17.9	20.4	19.9	23.9	25.9	24.9	21.4	16.4	12.4	9.0	8.5
87.5°	5.0	4.5	5.0	5.0	5.0	4.5	4.0	4.0	4.0	2.5	2.0
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)