

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P633538

Luminaire Tested: GWS-SA2E-830-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-830-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6885 lumens
Efficiency: N/A
Efficacy: 63.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

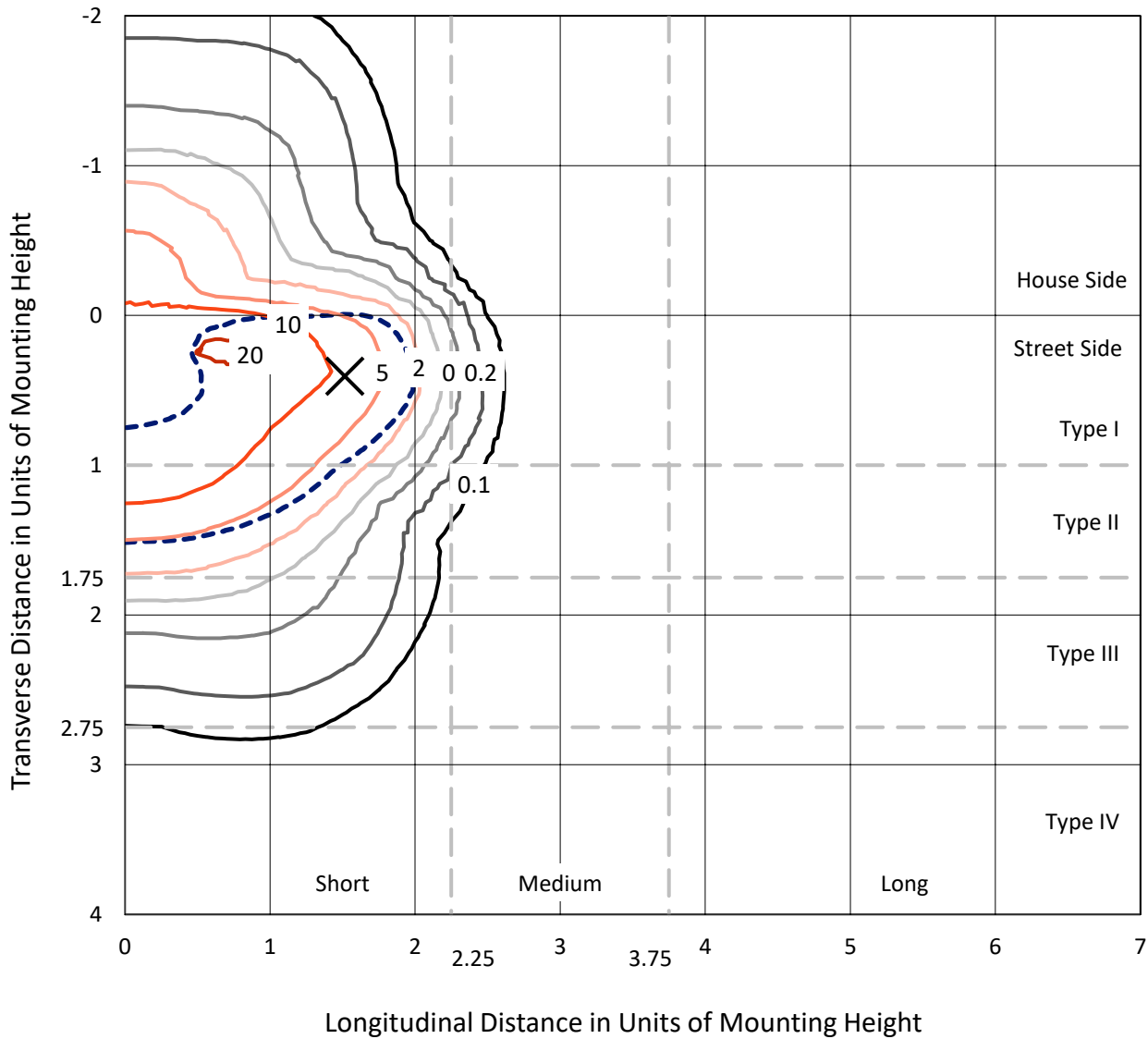
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

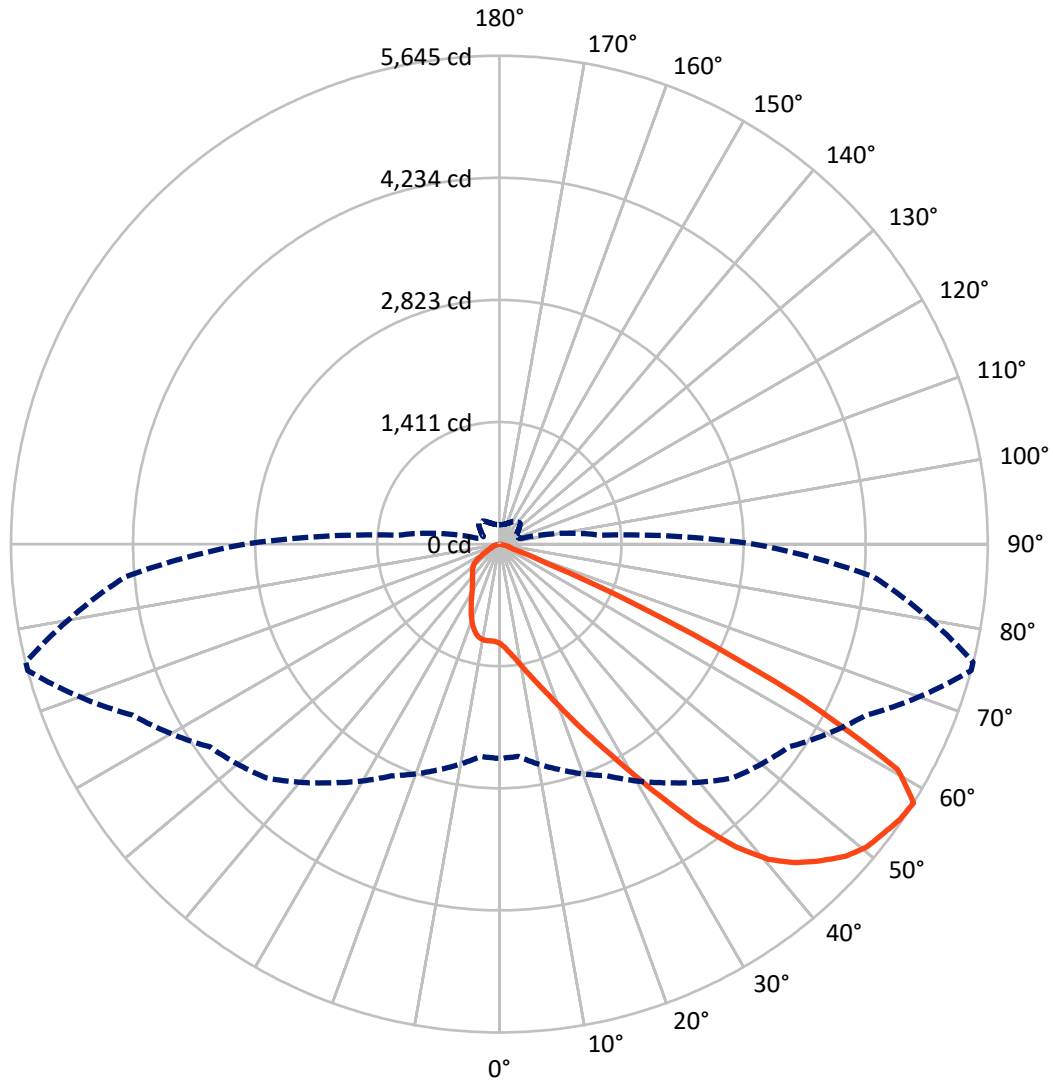
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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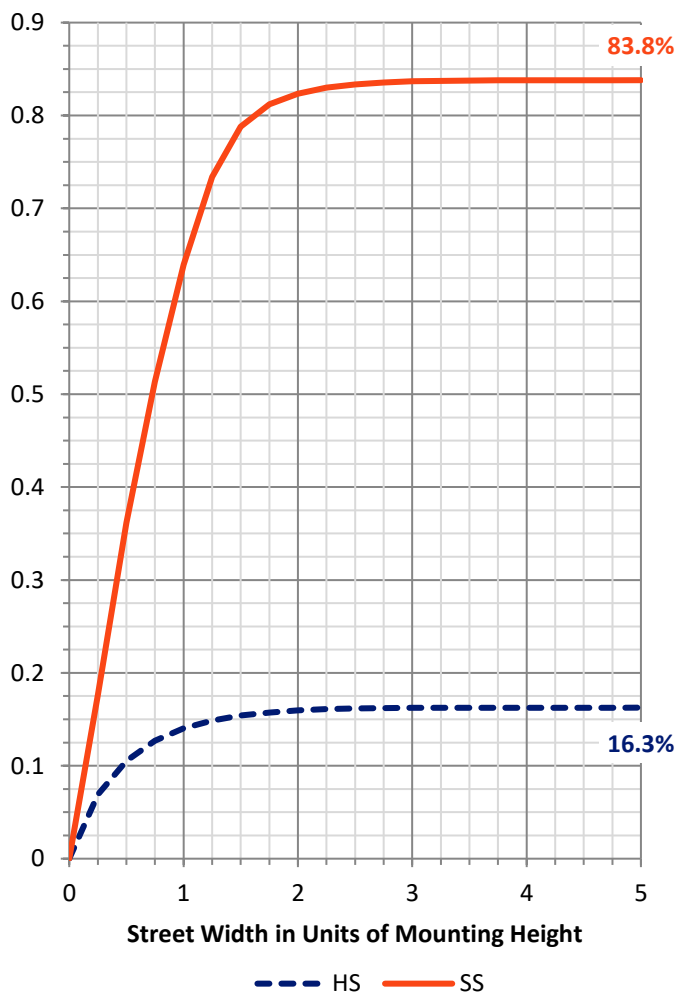
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1124.7	0.0	1124.7
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	5760.3	0.0	5760.3
	% Fixture	83.7	0.0	83.7
Total	Lumens	6885.0	0.0	6885.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	1.7
10°-20°	379.6	5.5
20°-30°	695.1	10.1
30°-40°	1153.2	16.8
40°-50°	1761.3	25.6
50°-60°	1979.1	28.7
60°-70°	730.0	10.6
70°-80°	69.8	1.0
80°-90°	0.1	0.0
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°	6885.0	100.0
0°-180°	6885.0	100.0

Coefficient of Utilization



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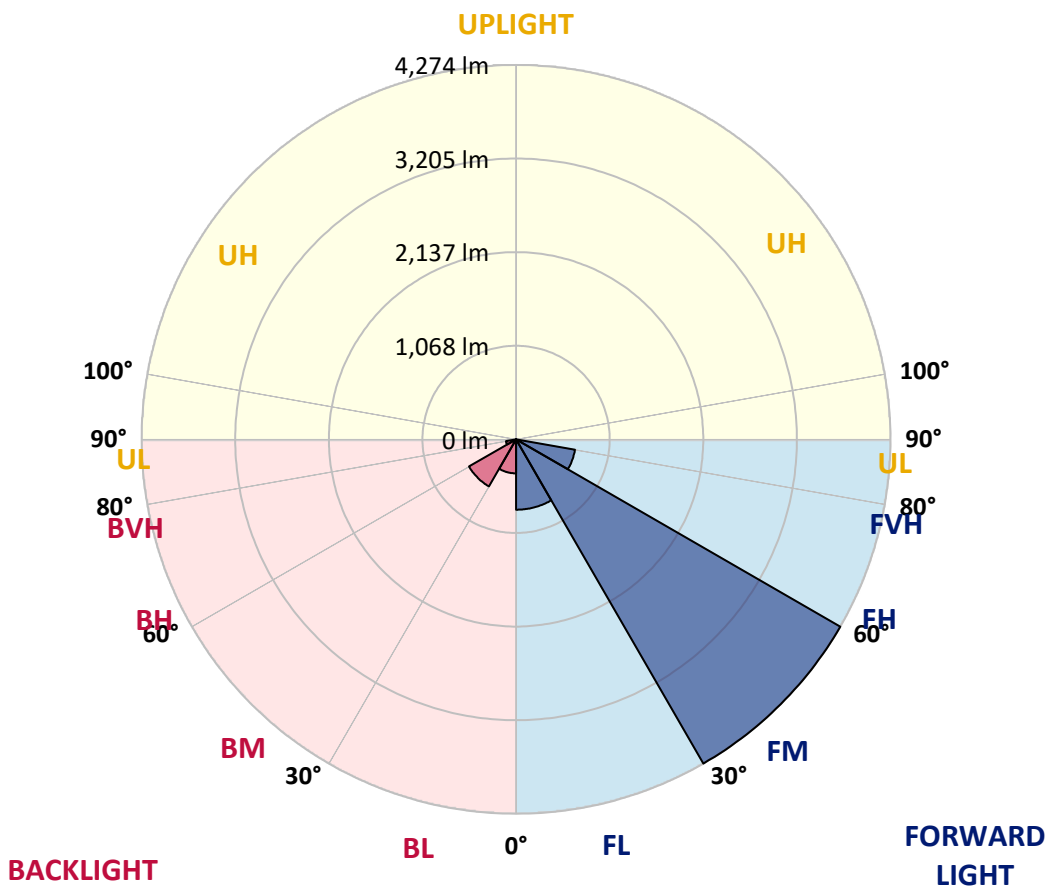
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	803.5	11.7			
FM (30°-60°)	4273.9	62.1			
FH (60°-80°)	683.0	9.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	388.1	5.6	B1/500		
BM (30°-60°)	619.8	9.0	B1/1000		
BH (60°-80°)	116.8	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
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°	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3
2.5°	1282.9	1296.2	1292.1	1283.8	1278.8	1261.3	1250.5	1218.9	1196.5	1194.0	1173.2
5°	1445.0	1442.5	1439.1	1429.2	1420.9	1393.4	1361.0	1307.9	1260.5	1254.7	1210.6
7.5°	1533.9	1535.5	1537.2	1535.5	1529.7	1508.9	1473.2	1410.9	1338.6	1333.6	1263.8
10°	1570.4	1573.7	1582.1	1597.8	1612.0	1610.3	1589.5	1525.6	1436.6	1428.3	1334.4
12.5°	1587.9	1592.0	1605.3	1635.2	1673.5	1703.4	1706.7	1649.4	1551.3	1538.0	1418.4
15°	1612.0	1616.1	1632.7	1671.8	1727.5	1786.5	1824.7	1788.1	1678.4	1664.3	1510.6
17.5°	1622.8	1628.6	1652.7	1704.2	1776.5	1867.1	1953.5	1950.2	1828.8	1818.0	1617.8
20°	1643.5	1647.7	1669.3	1725.0	1812.2	1942.7	2088.1	2140.4	2012.5	1996.7	1747.4
22.5°	1709.2	1710.9	1720.8	1755.7	1837.1	1997.5	2225.2	2362.3	2229.3	2208.6	1892.8
25°	1816.4	1815.5	1819.7	1825.5	1885.3	2053.2	2357.3	2612.4	2477.8	2455.3	2057.3
27.5°	1952.6	1952.6	1962.6	1946.0	1970.1	2122.2	2487.8	2899.9	2766.9	2735.4	2237.6
30°	2113.0	2112.2	2135.4	2108.9	2116.3	2231.0	2628.2	3213.1	3115.9	3076.9	2445.4
32.5°	2330.7	2325.7	2352.3	2315.8	2290.8	2395.5	2799.3	3540.5	3533.9	3474.0	2706.3
35°	2605.7	2597.4	2605.7	2570.0	2525.1	2625.7	3023.7	3867.1	3997.5	3934.4	3017.0
37.5°	2879.1	2905.7	2914.8	2853.4	2816.8	2917.3	3293.7	4159.6	4440.4	4374.8	3340.3
40°	3201.5	3193.2	3224.8	3155.8	3132.5	3243.9	3558.0	4377.3	4791.0	4728.7	3627.8
42.5°	3439.2	3454.1	3493.2	3454.9	3436.7	3541.4	3779.8	4504.4	5034.5	4973.0	3833.0
45°	3724.2	3735.0	3749.9	3718.3	3699.2	3802.3	3940.2	4560.1	5219.8	5153.3	3970.9
47.5°	4032.4	4040.7	4040.7	3975.9	3914.4	3956.8	4047.4	4591.6	5390.1	5326.2	4073.1
50°	4253.4	4257.6	4294.2	4248.5	4114.7	4049.0	4096.4	4622.4	5503.1	5443.3	4106.4
52.5°	4057.3	4052.4	4172.8	4267.6	4303.3	4172.8	4181.2	4667.2	5558.0	5506.5	4133.0
55°	3416.7	3408.4	3577.9	3808.1	4123.0	4290.0	4283.4	4693.8	5618.6	5587.1	4229.3
57.5°	2477.0	2462.8	2698.8	2954.7	3367.7	3820.5	4086.4	4678.9	5645.2	5642.7	4341.5
60°	1489.0	1477.4	1700.0	1969.3	2288.3	2743.7	3184.9	4191.1	5289.6	5294.6	4049.9
62.5°	916.5	927.3	1128.4	1265.5	1384.3	1521.4	1776.5	2819.3	3918.6	3951.0	2845.9
65°	616.5	624.8	811.0	983.8	983.8	804.3	690.5	1347.7	2090.6	2035.7	1346.1
67.5°	413.8	422.9	570.0	771.9	801.0	560.9	280.0	402.2	582.5	565.0	333.2
70°	243.5	253.4	379.7	529.3	583.3	390.5	187.0	170.3	165.4	160.4	129.6
72.5°	108.8	113.0	193.6	269.2	246.0	164.5	132.1	136.3	128.8	126.3	105.5
75°	33.2	34.9	49.9	58.2	59.0	59.0	79.8	107.2	101.4	102.2	81.4
77.5°	8.3	8.3	13.3	12.5	6.6	5.8	15.0	24.1	24.9	22.4	16.6
80°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3
2.5°	1164.1	1142.5	1128.4	1108.4	1094.3	1079.4	1066.1	1055.3	1049.4	1047.8	1048.6
5°	1190.7	1156.6	1123.4	1085.2	1058.6	1033.7	1013.7	997.9	990.4	988.0	988.0
7.5°	1231.4	1184.1	1125.1	1065.2	1020.4	981.3	958.0	940.6	933.9	932.3	927.3
10°	1284.6	1219.8	1122.6	1029.5	966.4	925.6	909.0	904.0	906.5	907.4	906.5
12.5°	1348.6	1257.2	1106.8	977.2	909.0	884.1	885.8	899.0	914.0	921.5	923.1
15°	1416.7	1291.2	1071.0	914.8	860.0	859.2	883.3	914.0	943.1	955.6	958.9
17.5°	1493.2	1318.7	1016.2	848.4	817.6	841.7	884.9	932.3	971.3	992.1	996.3
20°	1577.1	1341.1	946.4	786.0	780.2	823.4	883.3	941.4	989.6	1012.9	1017.0
22.5°	1664.3	1356.9	865.8	728.7	746.2	802.7	867.5	924.0	969.7	996.3	999.6
25°	1764.0	1358.5	783.6	680.5	714.6	774.4	829.3	875.8	914.0	937.3	939.8
27.5°	1851.3	1338.6	710.4	641.5	685.5	739.5	776.1	801.8	828.4	841.7	842.5
30°	1951.8	1303.7	641.5	609.9	655.6	696.3	714.6	720.4	722.9	725.4	722.1
32.5°	2071.5	1261.3	589.9	579.1	621.5	648.9	653.9	642.3	628.2	608.2	603.2
35°	2218.5	1223.1	547.6	549.2	584.1	600.8	596.6	571.7	544.2	520.2	516.0
37.5°	2378.1	1190.7	515.2	520.2	543.4	555.1	542.6	515.2	502.7	481.9	482.8
40°	2519.3	1164.1	486.1	491.1	501.9	512.7	492.7	474.5	497.7	496.1	497.7
42.5°	2619.9	1141.7	461.2	458.7	466.1	473.6	458.7	449.5	488.6	477.8	483.6
45°	2678.9	1120.9	440.4	425.4	437.1	450.4	440.4	428.8	442.0	392.2	388.0
47.5°	2718.7	1109.3	422.1	393.0	413.8	437.1	416.3	388.0	368.9	325.7	322.4
50°	2722.9	1103.5	400.5	359.8	386.4	411.3	387.2	348.2	320.7	301.6	299.1
52.5°	2744.5	1115.1	370.6	317.4	346.5	386.4	369.8	330.7	293.3	276.7	273.4
55°	2840.9	1164.1	320.7	259.2	301.6	367.3	355.6	295.0	259.2	249.3	246.8
57.5°	2940.6	1174.1	252.6	205.2	262.6	339.8	324.9	271.7	236.8	225.2	222.7
60°	2688.8	967.2	189.4	169.5	231.8	314.1	300.8	257.6	216.9	202.7	200.3
62.5°	1766.5	522.6	150.4	143.7	195.3	265.9	274.2	232.7	193.6	178.6	177.8
65°	814.3	242.6	115.5	113.8	152.9	211.9	236.0	203.6	163.7	150.4	150.4
67.5°	221.9	120.5	90.6	83.9	103.9	142.1	172.0	152.1	116.3	100.5	99.7
70°	110.5	97.2	81.4	72.3	74.8	88.1	101.4	84.8	59.0	48.2	47.4
72.5°	90.6	79.8	69.0	61.5	56.5	54.0	52.3	42.4	27.4	20.8	19.9
75°	67.3	57.3	49.0	39.9	34.1	31.6	28.3	20.8	11.6	6.6	5.8
77.5°	15.0	14.1	13.3	10.0	9.1	7.5	5.8	4.2	1.7	0.0	0.0
80°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)