

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: P633758

Luminaire Tested: GWS-SA2F-735-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633758
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-SA2F-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9504.1 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

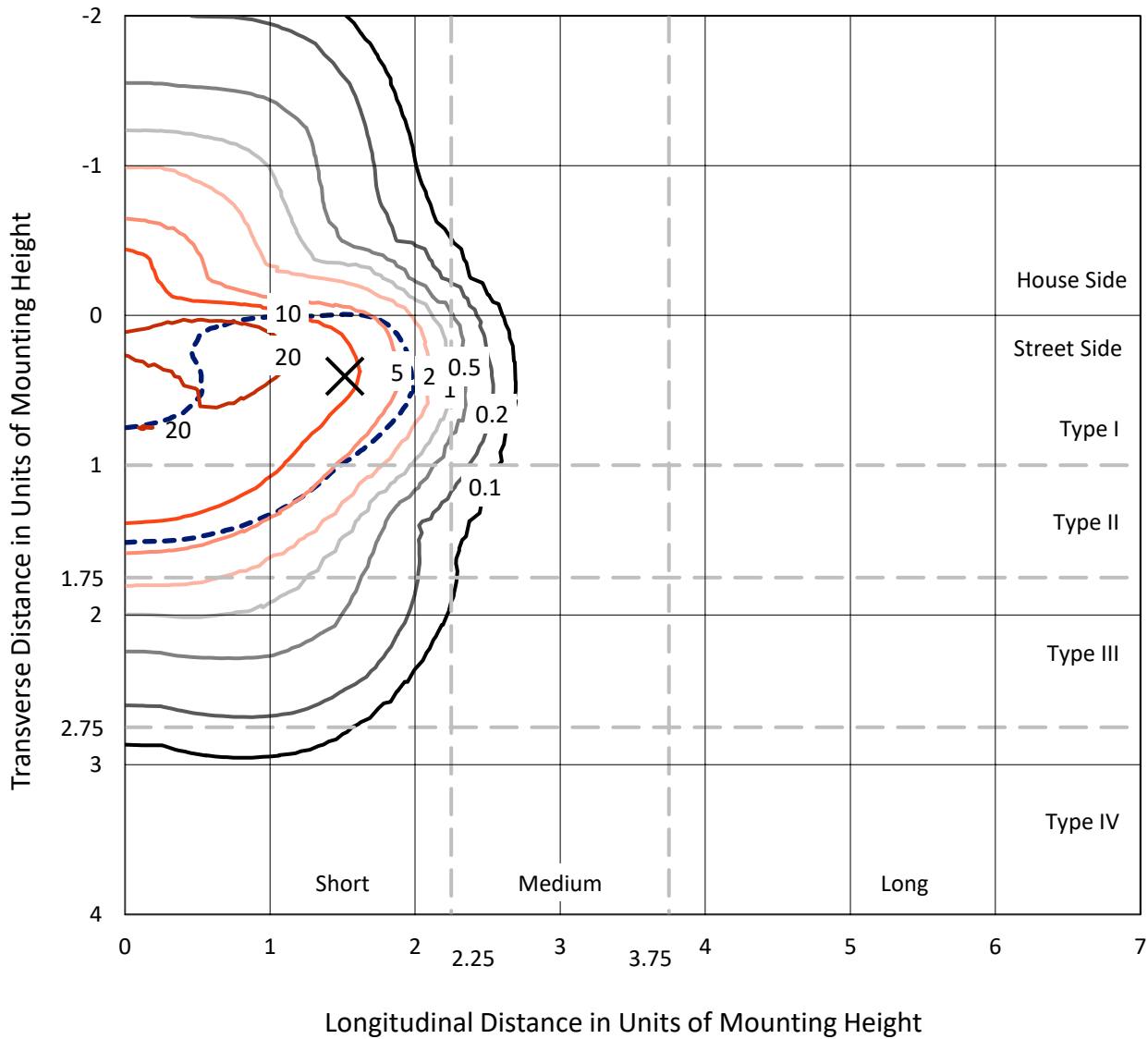
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633758
 CATALOG NUMBER: GWS-SA2F-735-U-T2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

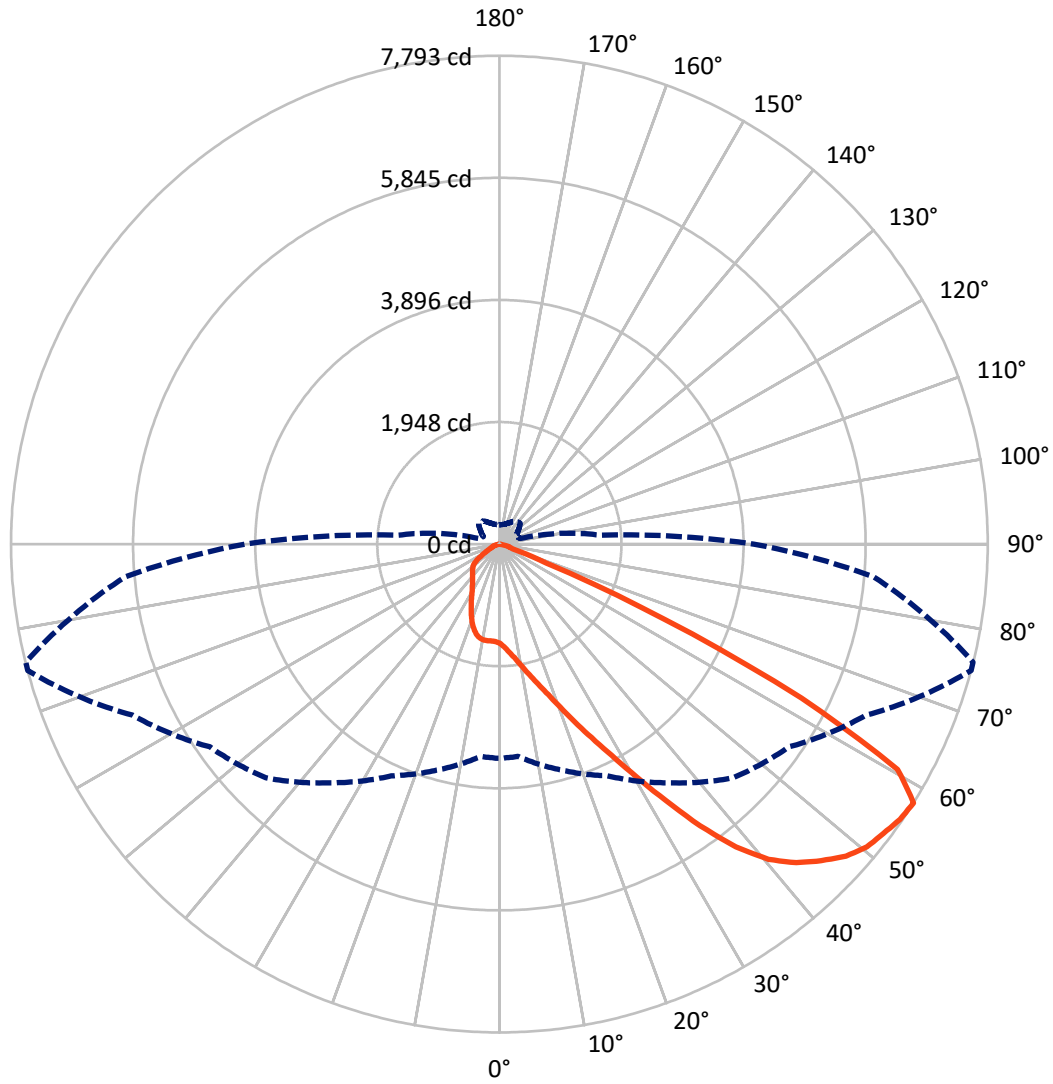
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 29.6 fc
 Type II - Short - N/A

REPORT NUMBER: P633758
CATALOG NUMBER: GWS-SA2F-735-U-T2-W-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P633758

CATALOG NUMBER: GWS-SA2F-735-U-T2-W-GRSBK

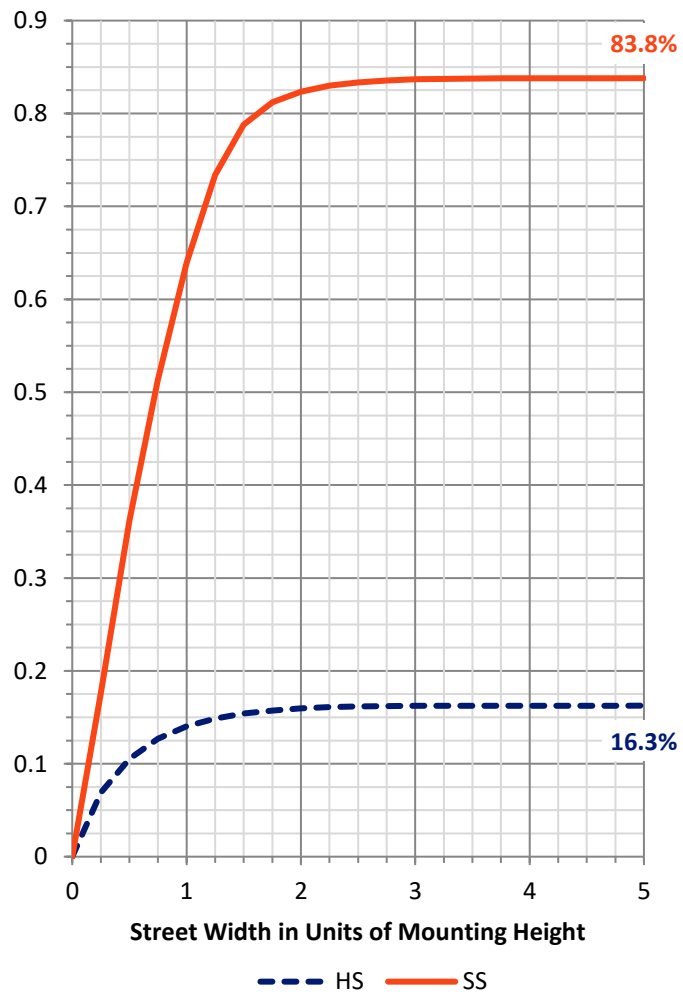
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1552.5	0.0	1552.5
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	7951.6	0.0	7951.6
	% Fixture	83.7	0.0	83.7
Total	Lumens	9504.1	0.0	9504.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.3	1.7
10°-20°	524.0	5.5
20°-30°	959.5	10.1
30°-40°	1591.9	16.8
40°-50°	2431.3	25.6
50°-60°	2732.0	28.7
60°-70°	1007.7	10.6
70°-80°	96.3	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°	9504.1	100.0
0°-180°	9504.1	100.0

Coefficient of Utilization



REPORT NUMBER: P633758

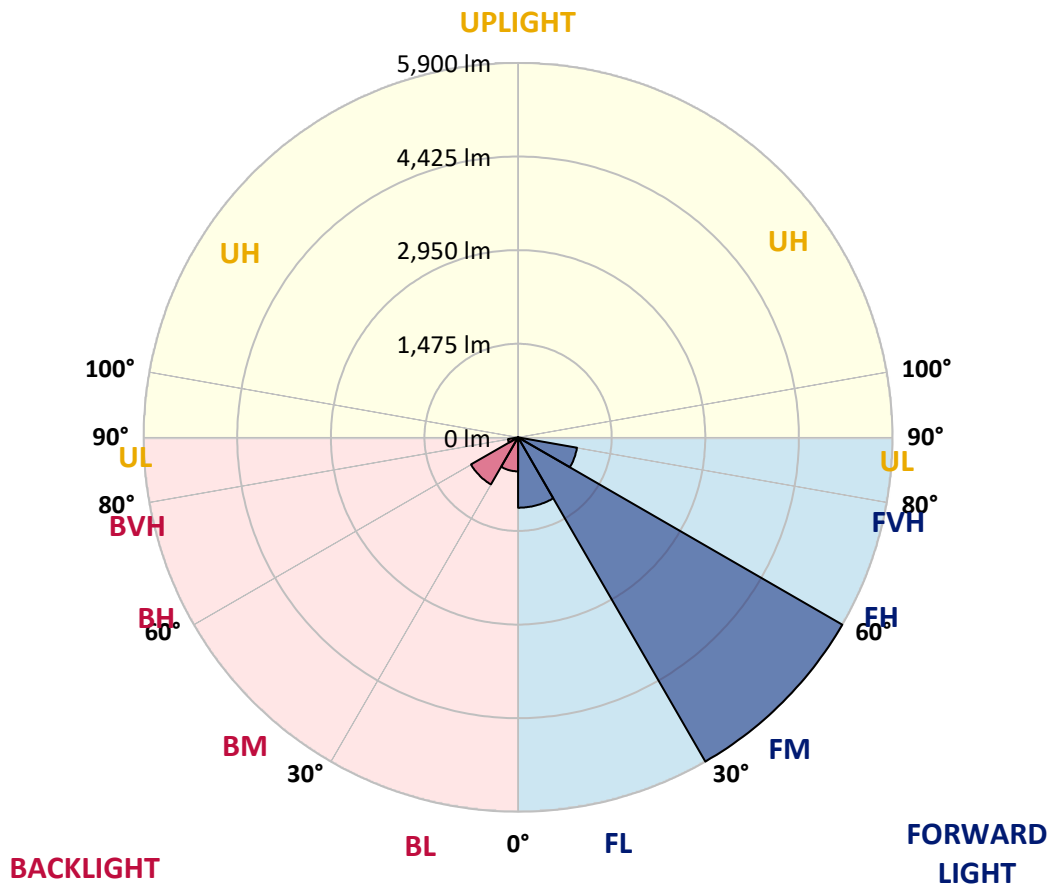
CATALOG NUMBER: GWS-SA2F-735-U-T2-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1109.1	11.7			
FM (30°-60°)	5899.7	62.1			
FH (60°-80°)	942.8	9.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	535.7	5.6	B2/1000		
BM (30°-60°)	855.5	9.0	B1/1000		
BH (60°-80°)	161.2	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: B2-U0-G1

Type II Short





REPORT NUMBER: P633758

CATALOG NUMBER: GWS-SA2F-735-U-T2-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1585.2	1585.2	1585.2	1585.2	1585.2	1585.2	1585.2	1585.2	1585.2	1585.2	1585.2
2.5°	1771.0	1789.3	1783.6	1772.1	1765.2	1741.1	1726.2	1682.6	1651.7	1648.2	1619.6
5°	1994.6	1991.2	1986.6	1972.8	1961.4	1923.5	1878.8	1805.4	1740.0	1732.0	1671.2
7.5°	2117.4	2119.7	2121.9	2119.7	2111.6	2082.9	2033.6	1947.6	1847.8	1840.9	1744.6
10°	2167.8	2172.4	2183.9	2205.7	2225.2	2222.9	2194.2	2105.9	1983.2	1971.7	1842.1
12.5°	2191.9	2197.6	2216.0	2257.3	2310.1	2351.3	2355.9	2276.8	2141.4	2123.1	1957.9
15°	2225.2	2230.9	2253.9	2307.8	2384.6	2466.0	2518.8	2468.3	2316.9	2297.4	2085.2
17.5°	2240.1	2248.1	2281.4	2352.5	2452.3	2577.3	2696.6	2692.0	2524.5	2509.6	2233.2
20°	2268.8	2274.5	2304.3	2381.2	2501.6	2681.7	2882.4	2954.7	2778.0	2756.2	2412.1
22.5°	2359.4	2361.7	2375.4	2423.6	2536.0	2757.4	3071.7	3260.9	3077.4	3048.7	2612.9
25°	2507.3	2506.2	2511.9	2520.0	2602.5	2834.2	3254.0	3606.2	3420.3	3389.4	2840.0
27.5°	2695.4	2695.4	2709.2	2686.3	2719.5	2929.4	3434.1	4003.0	3819.5	3775.9	3088.9
30°	2916.8	2915.7	2947.8	2911.1	2921.4	3079.7	3628.0	4435.4	4301.2	4247.3	3375.6
32.5°	3217.3	3210.4	3247.2	3196.7	3162.3	3306.8	3864.2	4887.4	4878.2	4795.6	3735.8
35°	3597.0	3585.5	3597.0	3547.7	3485.7	3624.5	4173.9	5338.1	5518.2	5431.0	4164.8
37.5°	3974.3	4011.1	4023.7	3938.8	3888.3	4027.1	4546.7	5741.9	6129.6	6038.9	4610.9
40°	4419.4	4407.9	4451.5	4356.3	4324.2	4477.9	4911.4	6042.4	6613.6	6527.6	5007.8
42.5°	4747.4	4768.1	4822.0	4769.2	4744.0	4888.5	5217.7	6217.9	6949.7	6864.8	5291.1
45°	5140.8	5155.8	5176.4	5132.8	5106.4	5248.7	5439.1	6294.7	7205.4	7113.7	5481.5
47.5°	5566.4	5577.9	5577.9	5488.4	5403.5	5462.0	5587.0	6338.3	7440.6	7352.3	5622.6
50°	5871.5	5877.2	5927.7	5864.6	5679.9	5589.3	5654.7	6380.8	7596.6	7514.0	5668.5
52.5°	5600.8	5593.9	5760.2	5891.0	5940.3	5760.2	5771.7	6442.7	7672.3	7601.2	5705.2
55°	4716.5	4705.0	4939.0	5256.7	5691.4	5922.0	5912.8	6479.4	7756.0	7712.4	5838.2
57.5°	3419.2	3399.7	3725.5	4078.7	4648.8	5273.9	5640.9	6458.7	7792.7	7789.3	5993.1
60°	2055.4	2039.4	2346.8	2718.4	3158.8	3787.4	4396.4	5785.5	7301.8	7308.7	5590.5
62.5°	1265.1	1280.1	1557.6	1746.9	1910.9	2100.2	2452.3	3891.8	5409.2	5454.0	3928.5
65°	851.1	862.5	1119.5	1358.0	1358.0	1110.3	953.2	1860.4	2885.8	2810.1	1858.1
67.5°	571.2	583.8	786.8	1065.6	1105.7	774.2	386.5	555.1	804.0	780.0	459.9
70°	336.1	349.8	524.2	730.6	805.2	539.1	258.1	235.1	228.3	221.4	178.9
72.5°	150.3	156.0	267.3	371.6	339.5	227.1	182.4	188.1	177.8	174.3	145.7
75°	45.9	48.2	68.8	80.3	81.4	81.4	110.1	148.0	139.9	141.1	112.4
77.5°	11.5	11.5	18.4	17.2	9.2	8.0	20.6	33.3	34.4	31.0	22.9
80°	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
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



REPORT NUMBER: P633758
 CATALOG NUMBER: GWS-SA2F-735-U-T2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1585.2	1585.2	1585.2	1585.2	1585.2	1585.2	1585.2	1585.2	1585.2	1585.2	1585.2
2.5°	1606.9	1577.1	1557.6	1530.1	1510.6	1490.0	1471.6	1456.7	1448.7	1446.4	1447.5
5°	1643.6	1596.6	1550.7	1498.0	1461.3	1426.9	1399.3	1377.5	1367.2	1363.8	1363.8
7.5°	1699.9	1634.5	1553.0	1470.5	1408.5	1354.6	1322.5	1298.4	1289.2	1286.9	1280.1
10°	1773.3	1683.8	1549.6	1421.1	1334.0	1277.8	1254.8	1247.9	1251.4	1252.5	1251.4
12.5°	1861.6	1735.4	1527.8	1348.9	1254.8	1220.4	1222.7	1241.1	1261.7	1272.0	1274.3
15°	1955.6	1782.4	1478.5	1262.8	1187.1	1186.0	1219.3	1261.7	1301.8	1319.0	1323.6
17.5°	2061.2	1820.3	1402.8	1171.1	1128.6	1161.9	1221.6	1286.9	1340.8	1369.5	1375.3
20°	2177.0	1851.3	1306.4	1085.1	1077.0	1136.7	1219.3	1299.5	1366.1	1398.2	1403.9
22.5°	2297.4	1873.0	1195.2	1005.9	1030.0	1108.0	1197.5	1275.5	1338.5	1375.3	1379.8
25°	2435.1	1875.3	1081.6	939.4	986.4	1069.0	1144.7	1208.9	1261.7	1293.8	1297.3
27.5°	2555.5	1847.8	980.7	885.5	946.3	1020.8	1071.3	1106.9	1143.6	1161.9	1163.1
30°	2694.3	1799.6	885.5	841.9	905.0	961.2	986.4	994.4	997.9	1001.3	996.7
32.5°	2859.5	1741.1	814.4	799.5	858.0	895.8	902.7	886.6	867.1	839.6	832.7
35°	3062.5	1688.4	755.9	758.2	806.3	829.3	823.5	789.1	751.3	718.0	712.3
37.5°	3282.7	1643.6	711.1	718.0	750.1	766.2	749.0	711.1	693.9	665.3	666.4
40°	3477.7	1606.9	671.0	677.9	692.8	707.7	680.2	654.9	687.1	684.8	687.1
42.5°	3616.5	1576.0	636.6	633.1	643.5	653.8	633.1	620.5	674.4	659.5	667.6
45°	3697.9	1547.3	607.9	587.3	603.3	621.7	607.9	591.9	610.2	541.4	535.6
47.5°	3753.0	1531.2	582.7	542.5	571.2	603.3	574.6	535.6	509.3	449.6	445.0
50°	3758.7	1523.2	552.9	496.7	533.4	567.8	534.5	480.6	442.7	416.4	412.9
52.5°	3788.5	1539.3	511.6	438.2	478.3	533.4	510.4	456.5	404.9	382.0	377.4
55°	3921.6	1606.9	442.7	357.9	416.4	507.0	490.9	407.2	357.9	344.1	340.7
57.5°	4059.2	1620.7	348.7	283.3	362.5	469.1	448.5	375.1	326.9	310.8	307.4
60°	3711.7	1335.1	261.5	234.0	320.0	433.6	415.2	355.6	299.4	279.9	276.4
62.5°	2438.5	721.5	207.6	198.4	269.5	367.0	378.5	321.2	267.3	246.6	245.5
65°	1124.1	334.9	159.4	157.1	211.0	292.5	325.7	281.0	226.0	207.6	207.6
67.5°	306.2	166.3	125.0	115.8	143.4	196.1	237.4	209.9	160.6	138.8	137.6
70°	152.6	134.2	112.4	99.8	103.2	121.6	139.9	117.0	81.4	66.5	65.4
72.5°	125.0	110.1	95.2	84.9	78.0	74.6	72.3	58.5	37.9	28.7	27.5
75°	92.9	79.1	67.7	55.1	47.0	43.6	39.0	28.7	16.1	9.2	8.0
77.5°	20.6	19.5	18.4	13.8	12.6	10.3	8.0	5.7	2.3	0.0	0.0
80°	1.1	1.1	1.1	1.1	1.1	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)