

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: P633923

Luminaire Tested: GWS-SA2F-760-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633923  
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-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

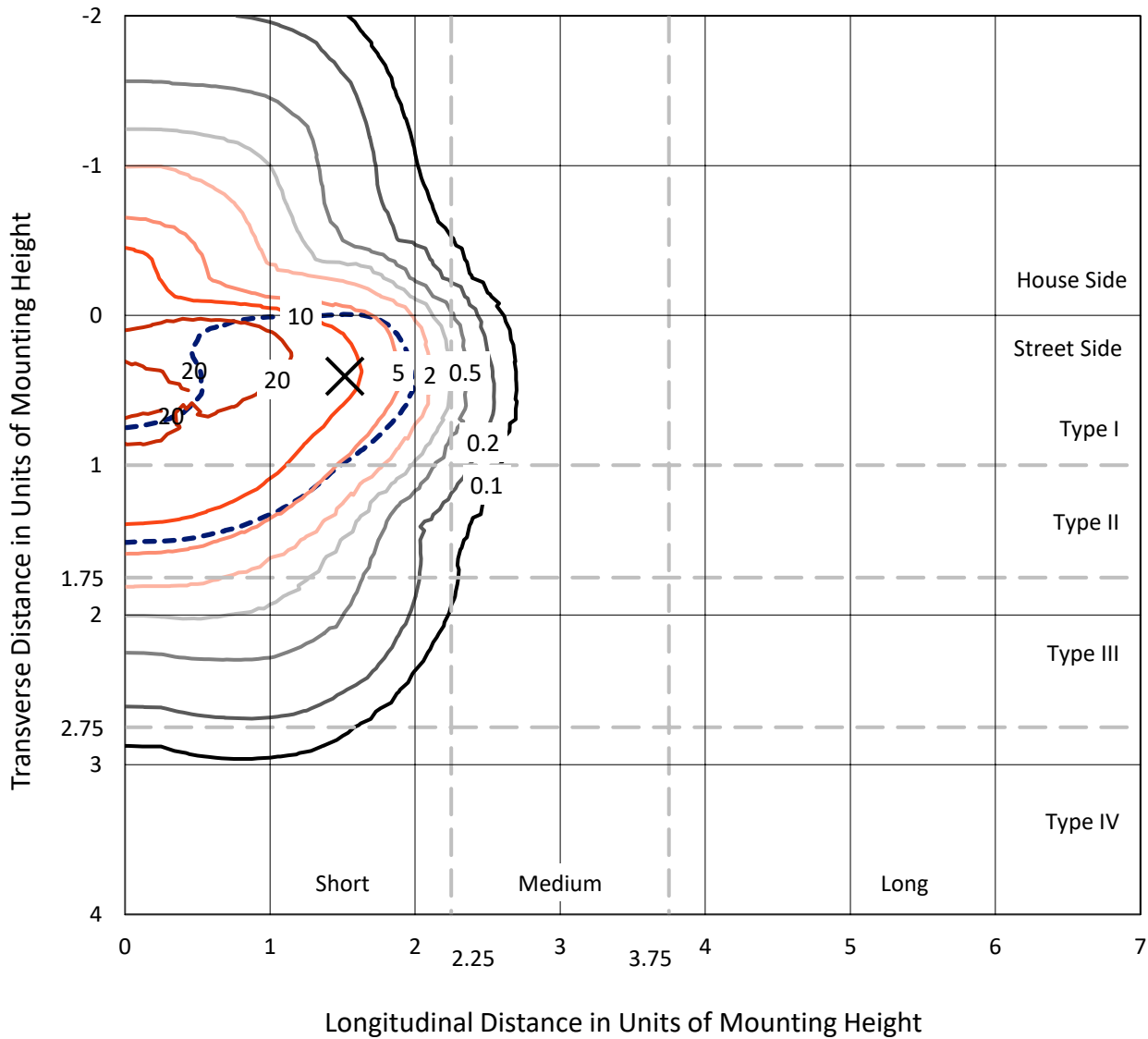
Lumens per Lamp: N/A  
Luminaire Lumens: 9721.9 lumens  
Efficiency: N/A  
Efficacy: 78.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

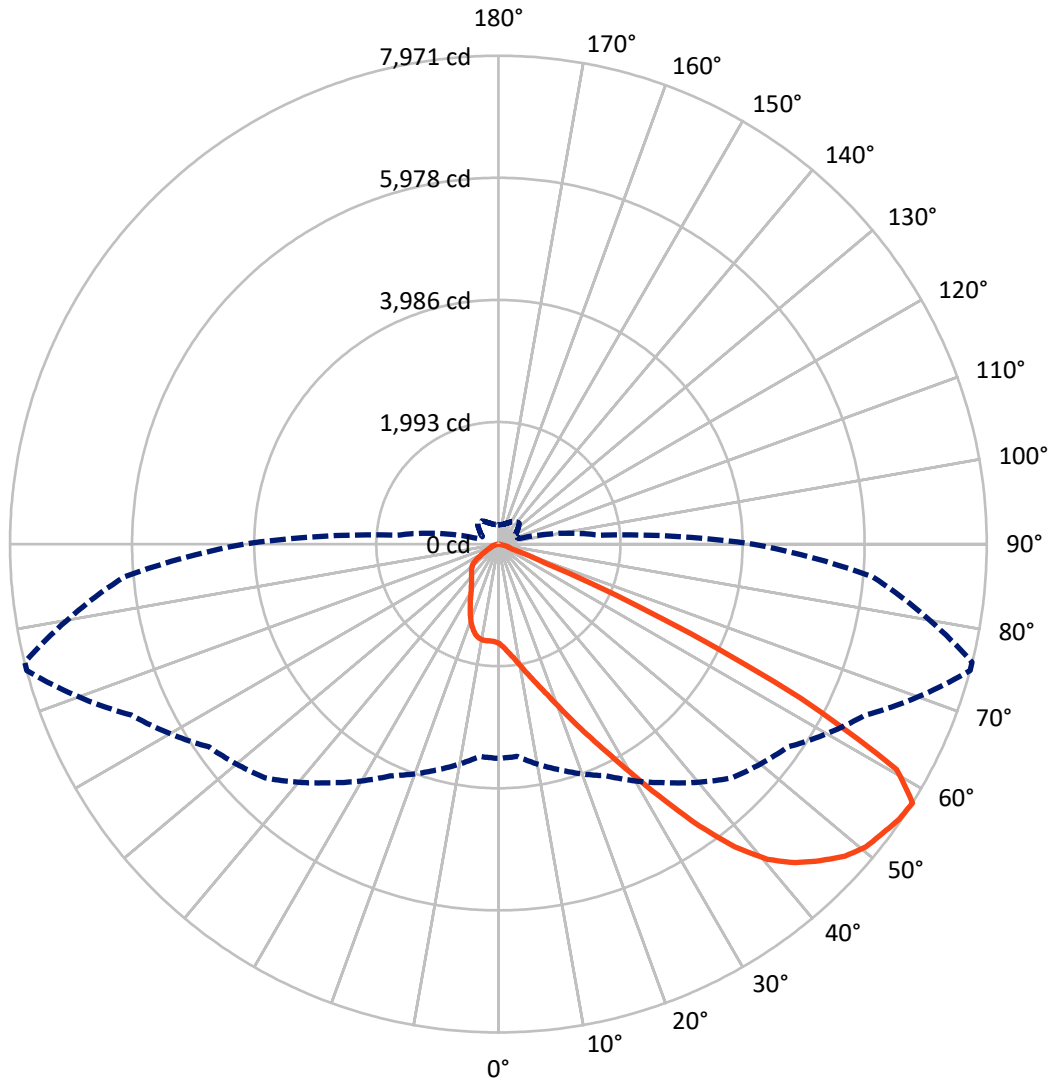
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 30.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P633923  
CATALOG NUMBER: GWS-SA2F-760-U-T2-W-GRSBK

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P633923

CATALOG NUMBER: GWS-SA2F-760-U-T2-W-GRSBK

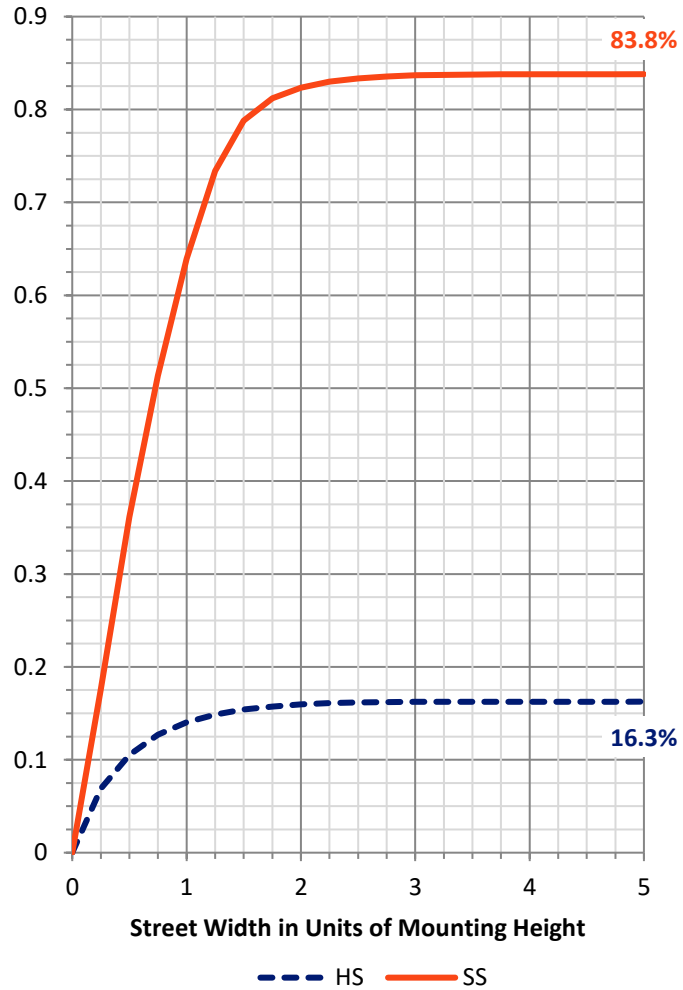
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1588.1	0.0	1588.1
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	8133.9	0.0	8133.9
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	9721.9	0.0	9721.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.0	1.7
10°-20°	536.0	5.5
20°-30°	981.5	10.1
30°-40°	1628.4	16.8
40°-50°	2487.0	25.6
50°-60°	2794.6	28.7
60°-70°	1030.8	10.6
70°-80°	98.5	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°	9721.9	100.0
0°-180°	9721.9	100.0

**Coefficient of Utilization**



REPORT NUMBER: P633923

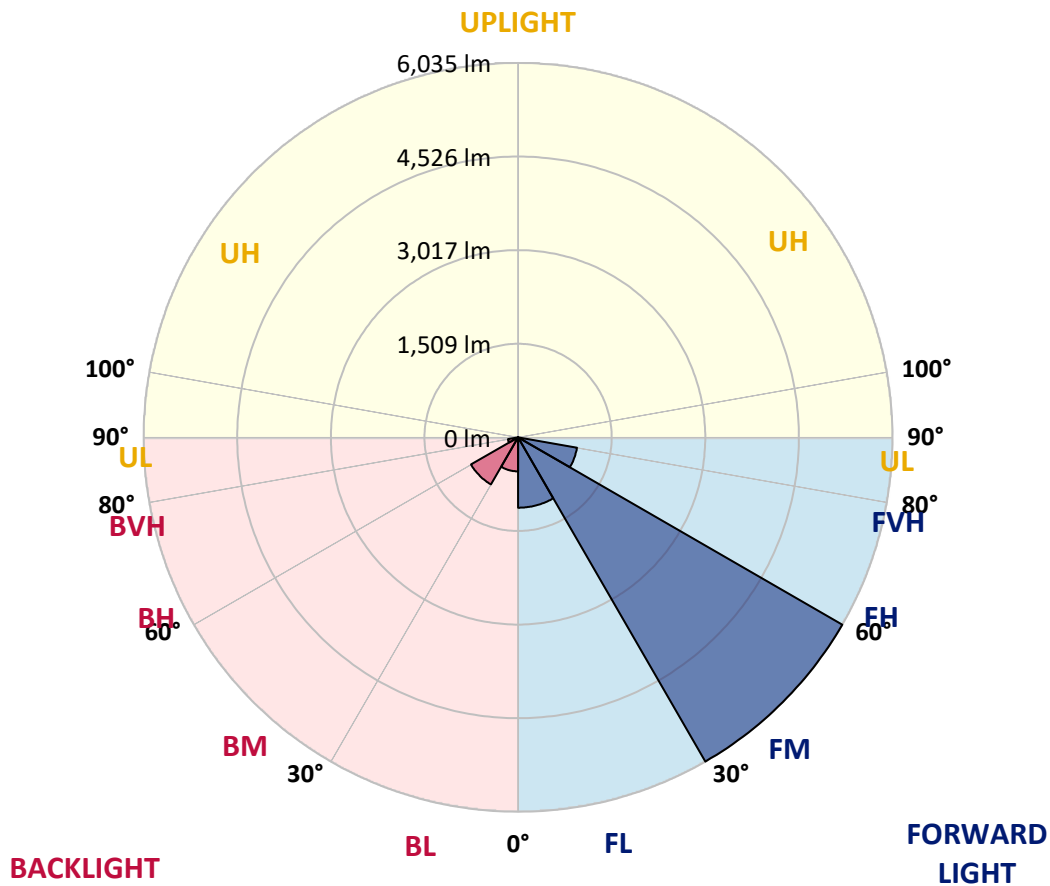
CATALOG NUMBER: GWS-SA2F-760-U-T2-W-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1134.5	11.7			
FM (30°-60°)	6034.9	62.1			
FH (60°-80°)	964.4	9.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	548.0	5.6	B2/1000		
BM (30°-60°)	875.1	9.0	B1/1000		
BH (60°-80°)	164.9	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: P633923

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1621.5	1621.5	1621.5	1621.5	1621.5	1621.5	1621.5	1621.5	1621.5	1621.5	1621.5
2.5°	1811.5	1830.3	1824.5	1812.7	1805.7	1781.0	1765.8	1721.2	1689.5	1686.0	1656.7
5°	2040.3	2036.8	2032.1	2018.0	2006.3	1967.6	1921.8	1846.7	1779.9	1771.7	1709.5
7.5°	2165.9	2168.2	2170.6	2168.2	2160.0	2130.7	2080.2	1992.2	1890.2	1883.1	1784.6
10°	2217.5	2222.2	2233.9	2256.2	2276.2	2273.8	2244.5	2154.1	2028.6	2016.9	1884.3
12.5°	2242.1	2248.0	2266.8	2309.0	2363.0	2405.2	2409.9	2329.0	2190.5	2171.7	2002.8
15°	2276.2	2282.0	2305.5	2360.6	2439.3	2522.6	2576.5	2524.9	2370.0	2350.1	2133.0
17.5°	2291.4	2299.6	2333.7	2406.4	2508.5	2636.4	2758.4	2753.7	2582.4	2567.1	2284.4
20°	2320.8	2326.6	2357.1	2435.7	2558.9	2743.1	2948.5	3022.4	2841.7	2819.4	2467.4
22.5°	2413.4	2415.8	2429.9	2479.1	2594.1	2820.6	3142.1	3335.6	3147.9	3118.6	2672.7
25°	2564.8	2563.6	2569.5	2577.7	2662.2	2899.2	3328.6	3688.8	3498.7	3467.1	2905.0
27.5°	2757.2	2757.2	2771.3	2747.8	2781.9	2996.6	3512.8	4094.8	3907.0	3862.4	3159.7
30°	2983.7	2982.5	3015.3	2977.8	2988.4	3150.3	3711.1	4537.1	4399.8	4344.7	3453.0
32.5°	3291.1	3284.0	3321.6	3269.9	3234.7	3382.6	3952.8	4999.4	4990.0	4905.5	3821.4
35°	3679.4	3667.7	3679.4	3629.0	3565.6	3707.6	4269.6	5460.5	5644.7	5555.5	4260.2
37.5°	4065.4	4103.0	4115.9	4029.1	3977.4	4119.4	4650.9	5873.5	6270.0	6177.3	4716.6
40°	4520.7	4508.9	4553.5	4456.1	4423.3	4580.5	5024.0	6180.9	6765.2	6677.2	5122.6
42.5°	4856.2	4877.3	4932.5	4878.5	4852.7	5000.5	5337.3	6360.4	7108.9	7022.1	5412.4
45°	5258.7	5273.9	5295.0	5250.4	5223.5	5368.9	5563.7	6439.0	7370.6	7276.7	5607.1
47.5°	5693.9	5705.7	5705.7	5614.2	5527.3	5587.2	5715.1	6483.6	7611.1	7520.7	5751.4
50°	6006.0	6011.9	6063.5	5999.0	5810.1	5717.4	5784.3	6527.0	7770.7	7686.2	5798.4
52.5°	5729.1	5722.1	5892.2	6026.0	6076.4	5892.2	5904.0	6590.3	7848.1	7775.3	5835.9
55°	4824.5	4812.8	5052.2	5377.2	5821.8	6057.7	6048.3	6627.9	7933.7	7889.2	5972.0
57.5°	3497.6	3477.6	3810.8	4172.2	4755.3	5394.8	5770.2	6606.8	7971.3	7967.8	6130.4
60°	2102.5	2086.1	2400.5	2780.7	3231.2	3874.2	4497.2	5918.0	7469.1	7476.2	5718.6
62.5°	1294.1	1309.4	1593.3	1786.9	1954.7	2148.3	2508.5	3981.0	5533.2	5579.0	4018.5
65°	870.6	882.3	1145.1	1389.2	1389.2	1135.7	975.0	1903.1	2952.0	2874.5	1900.7
67.5°	584.3	597.2	804.9	1090.0	1131.0	792.0	395.4	567.9	822.5	797.8	470.5
70°	343.8	357.9	536.2	747.4	823.6	551.4	264.0	240.5	233.5	226.4	183.0
72.5°	153.7	159.6	273.4	380.1	347.3	232.3	186.6	192.4	181.9	178.3	149.0
75°	46.9	49.3	70.4	82.1	83.3	83.3	112.6	151.4	143.1	144.3	115.0
77.5°	11.7	11.7	18.8	17.6	9.4	8.2	21.1	34.0	35.2	31.7	23.5
80°	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2
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: P633923

CATALOG NUMBER: GWS-SA2F-760-U-T2-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1621.5	1621.5	1621.5	1621.5	1621.5	1621.5	1621.5	1621.5	1621.5	1621.5	1621.5
2.5°	1643.8	1613.3	1593.3	1565.2	1545.2	1524.1	1505.3	1490.1	1481.9	1479.5	1480.7
5°	1681.3	1633.2	1586.3	1532.3	1494.8	1459.6	1431.4	1409.1	1398.6	1395.0	1395.0
7.5°	1738.8	1671.9	1588.6	1504.1	1440.8	1385.6	1352.8	1328.2	1318.8	1316.4	1309.4
10°	1813.9	1722.4	1585.1	1453.7	1364.5	1307.0	1283.6	1276.5	1280.1	1281.2	1280.1
12.5°	1904.2	1775.2	1562.8	1379.8	1283.6	1248.4	1250.7	1269.5	1290.6	1301.2	1303.5
15°	2000.4	1823.3	1512.4	1291.8	1214.3	1213.2	1247.2	1290.6	1331.7	1349.3	1354.0
17.5°	2108.4	1862.0	1434.9	1197.9	1154.5	1188.5	1249.5	1316.4	1371.6	1400.9	1406.8
20°	2226.9	1893.7	1336.4	1109.9	1101.7	1162.7	1247.2	1329.3	1397.4	1430.2	1436.1
22.5°	2350.1	1916.0	1222.6	1029.0	1053.6	1133.4	1224.9	1304.7	1369.2	1406.8	1411.5
25°	2490.9	1918.3	1106.4	960.9	1009.0	1093.5	1170.9	1236.6	1290.6	1323.5	1327.0
27.5°	2614.1	1890.2	1003.2	905.8	968.0	1044.2	1095.8	1132.2	1169.8	1188.5	1189.7
30°	2756.0	1840.9	905.8	861.2	925.7	983.2	1009.0	1017.2	1020.8	1024.3	1019.6
32.5°	2925.0	1781.0	833.0	817.8	877.6	916.3	923.4	906.9	887.0	858.8	851.8
35°	3132.7	1727.1	773.2	775.5	824.8	848.3	842.4	807.2	768.5	734.5	728.6
37.5°	3357.9	1681.3	727.4	734.5	767.3	783.8	766.2	727.4	709.8	680.5	681.7
40°	3557.4	1643.8	686.4	693.4	708.7	723.9	695.8	669.9	702.8	700.5	702.8
42.5°	3699.4	1612.1	651.2	647.7	658.2	668.8	647.7	634.7	689.9	674.6	682.9
45°	3782.7	1582.8	621.8	600.7	617.1	635.9	621.8	605.4	624.2	553.8	547.9
47.5°	3839.0	1566.3	596.0	555.0	584.3	617.1	587.8	547.9	520.9	459.9	455.2
50°	3844.8	1558.1	565.5	508.0	545.6	580.8	546.8	491.6	452.9	425.9	422.4
52.5°	3875.4	1574.5	523.3	448.2	489.3	545.6	522.1	467.0	414.2	390.7	386.0
55°	4011.5	1643.8	452.9	366.1	425.9	518.6	502.2	416.5	366.1	352.0	348.5
57.5°	4152.2	1657.8	356.7	289.8	370.8	479.9	458.8	383.7	334.4	318.0	314.4
60°	3796.7	1365.7	267.5	239.3	327.3	443.5	424.7	363.7	306.2	286.3	282.8
62.5°	2494.4	738.0	212.4	203.0	275.7	375.5	387.2	328.5	273.4	252.3	251.1
65°	1149.8	342.6	163.1	160.7	215.9	299.2	333.2	287.5	231.1	212.4	212.4
67.5°	313.3	170.1	127.9	118.5	146.7	200.6	242.9	214.7	164.3	142.0	140.8
70°	156.0	137.3	115.0	102.1	105.6	124.4	143.1	119.7	83.3	68.1	66.9
72.5°	127.9	112.6	97.4	86.8	79.8	76.3	73.9	59.8	38.7	29.3	28.2
75°	95.0	81.0	69.2	56.3	48.1	44.6	39.9	29.3	16.4	9.4	8.2
77.5°	21.1	19.9	18.8	14.1	12.9	10.6	8.2	5.9	2.3	0.0	0.0
80°	1.2	1.2	1.2	1.2	1.2	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)