

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: P637783

Luminaire Tested: GWS-SA4D-740-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637783  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-740-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

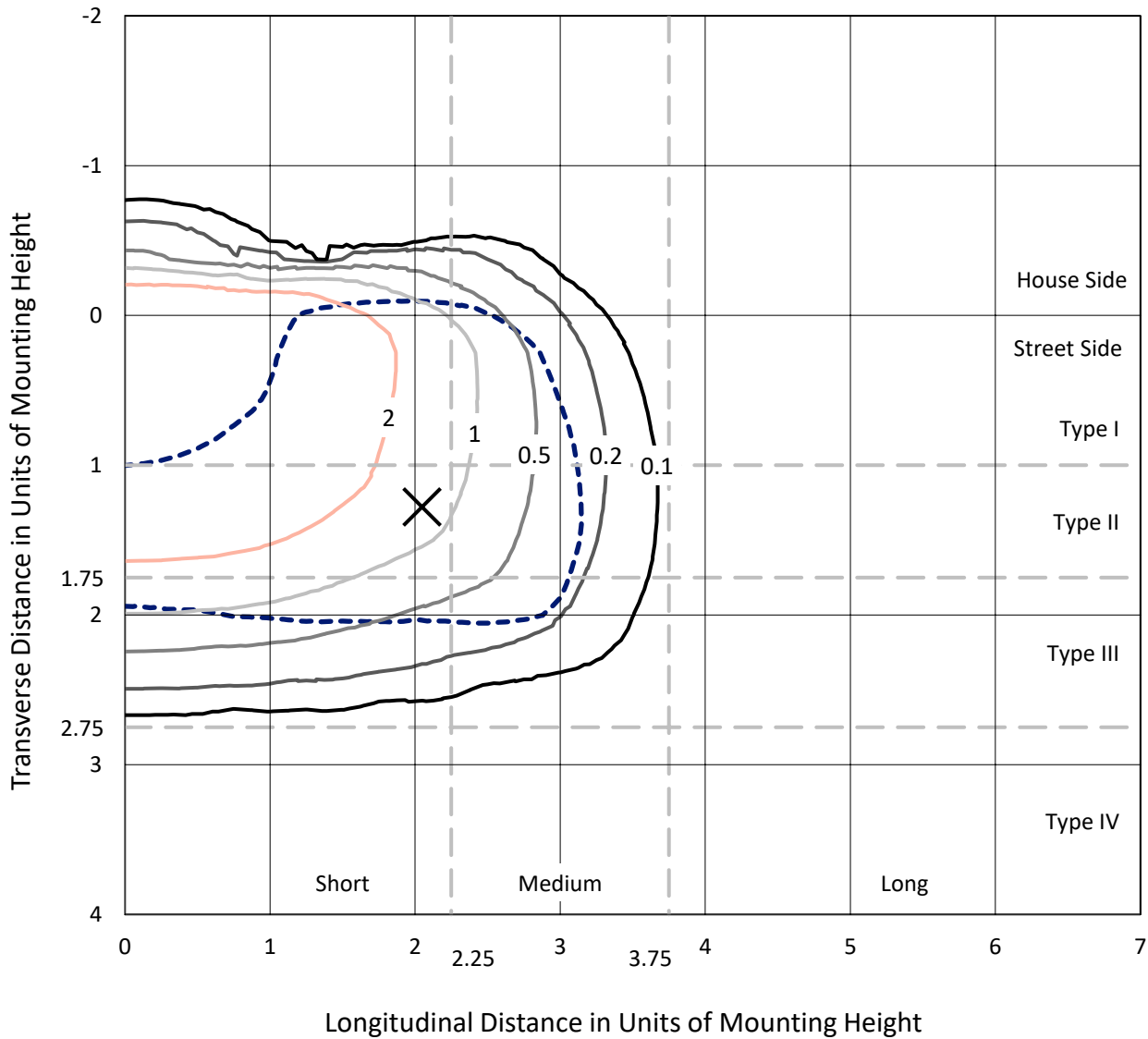
Lumens per Lamp: N/A  
Luminaire Lumens: 17978.5 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): 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: P637783  
 CATALOG NUMBER: GWS-SA4D-740-U-T3-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

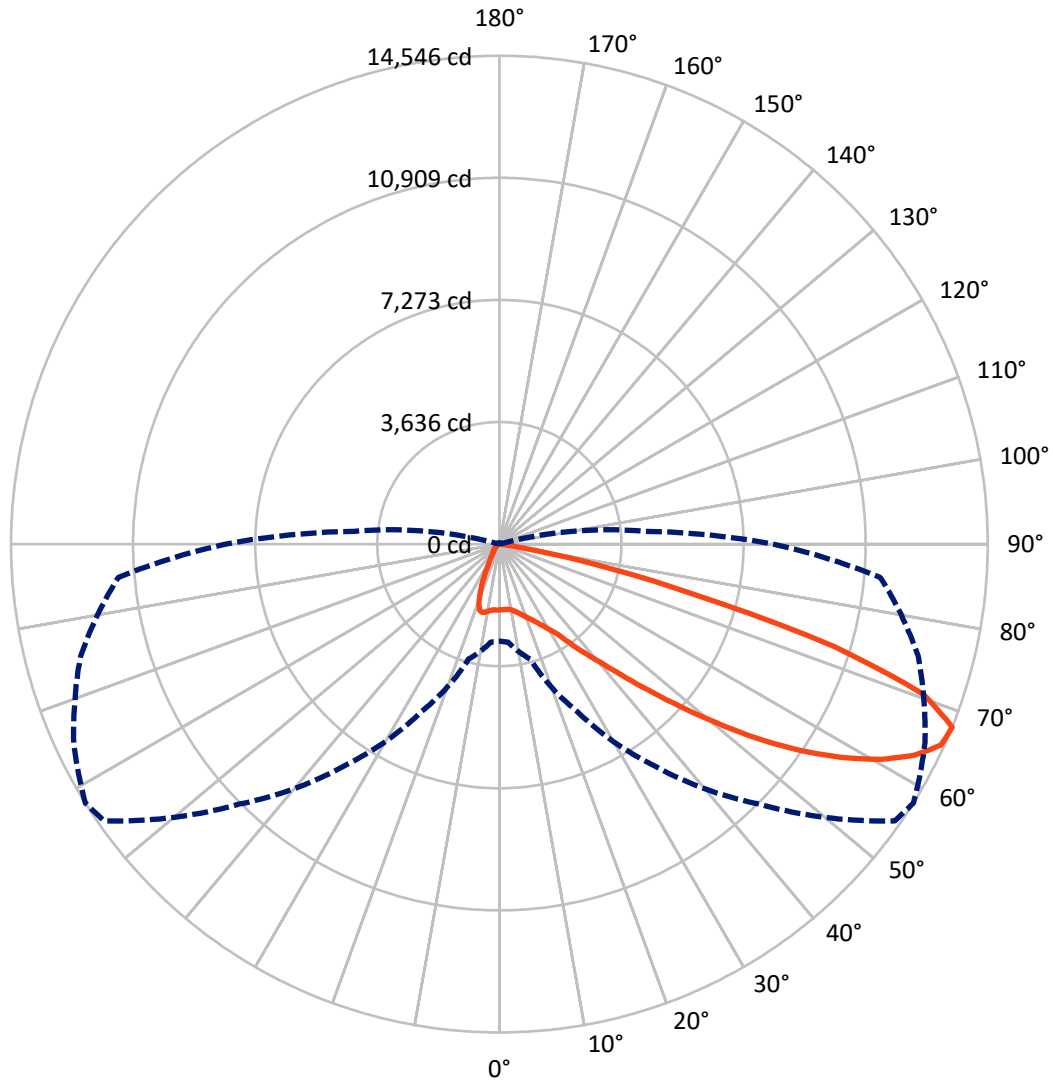
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P637783  
CATALOG NUMBER: GWS-SA4D-740-U-T3-W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P637783  
 CATALOG NUMBER: GWS-SA4D-740-U-T3-W-HSS

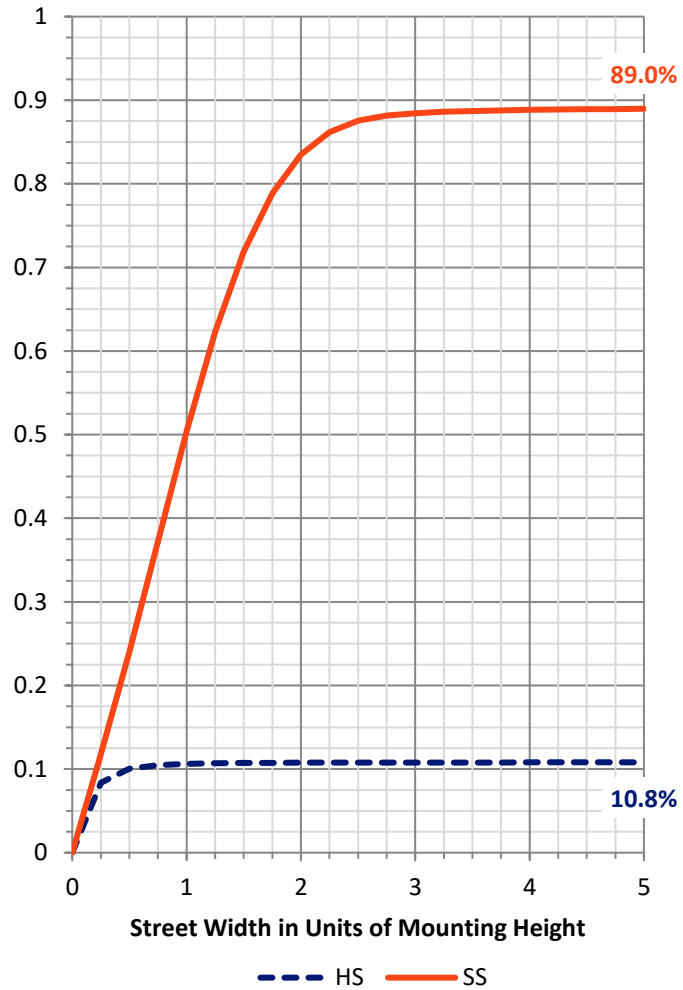
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1961.4	0.0	1961.4
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	16017.1	0.0	16017.1
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	17978.5	0.0	17978.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.0	1.0
10°-20°	516.7	2.9
20°-30°	901.9	5.0
30°-40°	1610.8	9.0
40°-50°	2944.2	16.4
50°-60°	4896.5	27.2
60°-70°	5318.4	29.6
70°-80°	1561.5	8.7
80°-90°	44.5	0.2
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°	17978.5	100.0
0°-180°	17978.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P637783

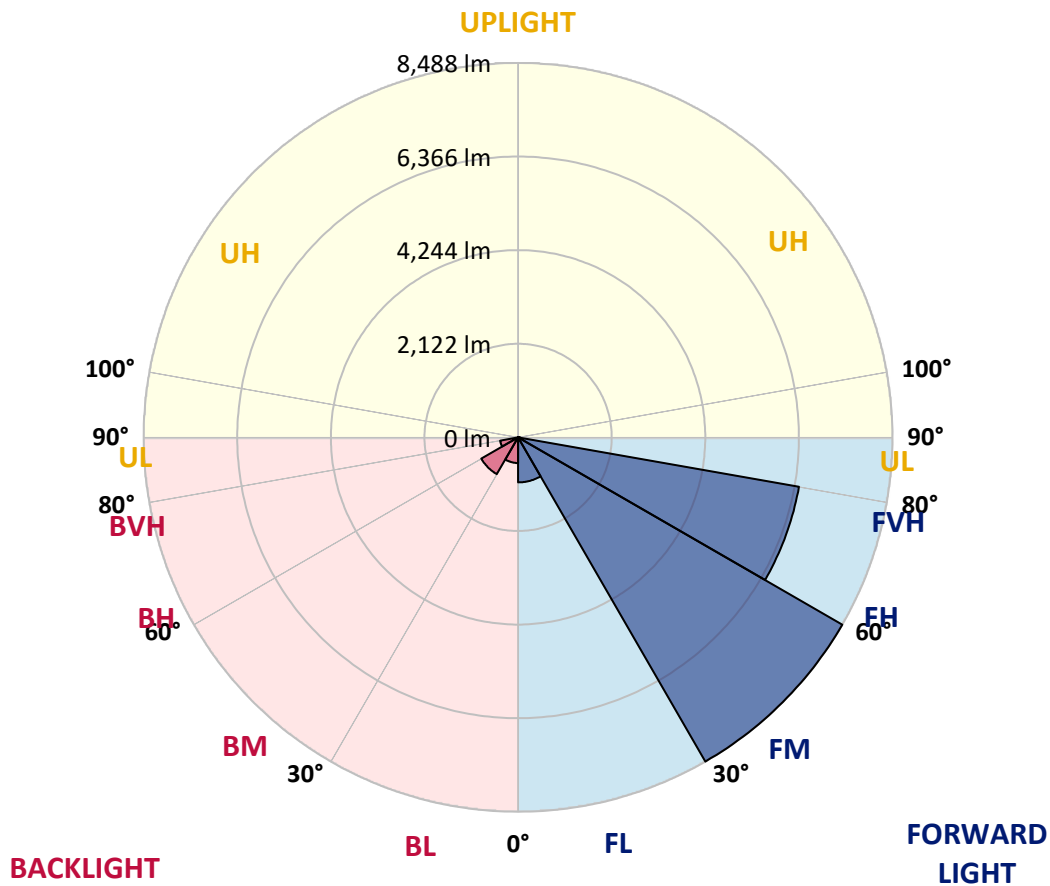
CATALOG NUMBER: GWS-SA4D-740-U-T3-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1020.9	5.7			
FM (30°-60°)	8488.0	47.2			
FH (60°-80°)	6465.9	36.0			G3/7500
FVH (80°-90°)	42.3	0.2			G1/100
BL (0°-30°)	581.8	3.2	B2/1000		
BM (30°-60°)	963.4	5.4	B1/1000		
BH (60°-80°)	414.0	2.3	B1/500		G1/500
BVH (80°-90°)	2.2	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-G3**

Type III Short





REPORT NUMBER: P637783

CATALOG NUMBER: GWS-SA4D-740-U-T3-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1959.1	1959.1	1959.1	1959.1	1959.1	1959.1	1959.1	1959.1	1959.1	1959.1	1959.1
2.5°	1922.3	1918.7	1918.7	1932.8	1934.5	1941.6	1957.4	1959.1	1967.9	1964.4	1952.1
5°	1822.2	1823.9	1834.5	1859.1	1880.1	1906.5	1945.1	1953.9	1973.2	1983.7	1976.7
7.5°	1729.2	1730.9	1746.7	1785.3	1825.7	1878.4	1941.6	1959.1	1997.7	2025.8	2027.6
10°	1694.0	1692.3	1708.1	1752.0	1804.6	1878.4	1969.7	1992.5	2050.4	2099.6	2108.3
12.5°	1704.6	1702.8	1718.6	1759.0	1816.9	1910.0	2018.8	2050.4	2124.1	2199.6	2215.4
15°	1746.7	1745.0	1755.5	1788.8	1852.0	1948.6	2082.0	2129.4	2222.4	2313.7	2338.3
17.5°	1873.1	1864.3	1853.8	1857.3	1894.2	1994.2	2162.8	2220.7	2336.5	2445.4	2466.5
20°	2097.8	2075.0	2046.9	2010.0	1992.5	2060.9	2255.8	2322.5	2462.9	2587.6	2591.1
22.5°	2436.6	2427.8	2362.9	2255.8	2180.3	2182.1	2364.6	2441.9	2613.9	2750.8	2731.5
25°	2908.8	2903.6	2803.5	2628.0	2431.3	2364.6	2503.3	2582.3	2793.0	2938.7	2877.2
27.5°	3495.2	3458.3	3340.7	3103.7	2810.5	2601.6	2678.9	2749.1	2982.6	3119.5	3003.6
30°	4006.0	4007.8	3897.2	3649.6	3319.6	2958.0	2893.0	2954.5	3156.4	3300.3	3159.9
32.5°	4497.5	4513.3	4392.2	4169.3	3807.6	3423.2	3200.2	3210.8	3379.3	3535.5	3365.3
35°	4954.0	4966.3	4882.0	4692.4	4355.4	3909.5	3628.6	3623.3	3714.6	3874.4	3651.4
37.5°	5464.8	5477.1	5394.6	5224.3	4908.3	4465.9	4114.9	4107.8	4144.7	4274.6	4020.1
40°	6009.0	6031.8	5940.6	5796.6	5494.7	5120.7	4680.1	4616.9	4580.1	4732.8	4497.5
42.5°	6560.2	6595.4	6563.8	6419.8	6161.7	5852.8	5413.9	5315.6	5236.6	5428.0	5178.7
45°	7244.9	7287.0	7273.0	7162.4	6962.2	6711.2	6296.9	6182.8	6145.9	6323.3	6026.6
47.5°	7903.2	7948.8	7999.7	7975.2	7833.0	7717.1	7257.2	7192.2	7181.7	7371.3	6911.3
50°	8393.0	8435.1	8630.0	8770.4	8866.9	8842.4	8443.9	8347.3	8331.5	8452.7	7845.3
52.5°	8744.1	8784.4	9053.0	9491.9	9846.5	10039.6	9637.6	9616.5	9530.5	9488.4	8719.5
55°	9016.2	9072.3	9355.0	10018.5	10733.0	11161.4	10910.3	10834.8	10613.7	10371.4	9530.5
57.5°	9070.6	9093.4	9491.9	10387.2	11421.2	12114.6	12114.6	11982.9	11556.3	11221.0	10467.9
60°	8582.6	8652.8	9191.7	10357.4	11716.1	12737.8	13113.5	13022.2	12446.4	12033.8	11370.3
62.5°	7499.4	7578.4	8235.0	9642.9	11421.2	12865.9	13870.1	13856.0	13206.5	12706.2	12118.1
65°	5751.0	5808.9	6381.2	8066.4	10174.8	12372.6	14410.8	14449.4	13806.9	13150.3	12376.2
67.5°	2889.5	2929.9	3547.8	5510.5	8064.7	10952.5	14373.9	14545.9	13989.4	12915.1	11391.3
70°	1009.4	1049.8	1341.2	2364.6	4908.3	8363.1	13131.0	13411.9	12916.8	11024.4	8403.5
72.5°	345.8	365.1	556.5	877.7	1910.0	4957.5	9985.2	10408.3	9521.7	7401.1	4829.3
75°	196.6	208.9	298.4	475.7	800.5	1630.8	5664.9	5924.8	5550.8	4034.1	1987.2
77.5°	133.4	143.9	186.1	270.3	442.4	524.9	2310.2	2908.8	2536.7	1316.6	507.3
80°	79.0	86.0	114.1	159.7	226.5	203.6	495.0	658.3	847.9	393.2	152.7
82.5°	36.9	42.1	73.7	105.3	114.1	86.0	145.7	177.3	238.7	193.1	63.2
85°	0.0	0.0	24.6	43.9	42.1	24.6	40.4	43.9	65.0	96.6	24.6
87.5°	0.0	0.0	0.0	0.0	0.0	1.8	3.5	5.3	10.5	19.3	10.5
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: P637783

CATALOG NUMBER: GWS-SA4D-740-U-T3-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1959.1	1959.1	1959.1	1959.1	1959.1	1959.1	1959.1	1959.1	1959.1	1959.1	1959.1
2.5°	1966.1	1953.9	1967.9	1960.9	1967.9	1966.1	1952.1	1943.3	1943.3	1927.5	1922.3
5°	1990.7	1978.4	1981.9	1966.1	1962.6	1953.9	1936.3	1929.3	1929.3	1913.5	1908.2
7.5°	2045.1	2025.8	2022.3	1990.7	1976.7	1952.1	1920.5	1908.2	1906.5	1890.7	1885.4
10°	2131.2	2108.3	2092.5	2052.2	2011.8	1962.6	1895.9	1839.7	1808.1	1766.0	1762.5
12.5°	2236.5	2208.4	2183.8	2122.4	2055.7	1945.1	1748.5	1543.1	1416.7	1316.6	1323.6
15°	2354.1	2327.8	2289.2	2196.1	2059.2	1771.3	1360.5	1044.5	890.0	807.5	804.0
17.5°	2482.3	2443.6	2380.4	2254.0	1948.6	1353.5	884.8	625.0	544.2	516.1	509.1
20°	2601.6	2554.2	2475.2	2266.3	1629.1	916.4	553.0	484.5	470.5	461.7	461.7
22.5°	2728.0	2668.3	2550.7	2171.5	1211.3	586.3	470.5	454.7	444.1	431.8	430.1
25°	2856.2	2778.9	2619.2	1924.0	793.5	461.7	440.6	423.1	403.8	384.5	379.2
27.5°	2965.0	2864.9	2671.8	1555.4	509.1	416.0	402.0	372.2	345.8	324.8	321.3
30°	3094.9	2966.8	2694.7	1137.6	400.3	366.9	345.8	314.2	282.6	261.6	254.5
32.5°	3268.7	3128.3	2659.6	740.8	354.6	323.0	289.7	252.8	221.2	198.4	194.9
35°	3539.1	3372.3	2498.1	472.2	321.3	279.1	238.7	200.1	173.8	156.2	152.7
37.5°	3869.1	3714.6	2233.0	354.6	287.9	242.3	194.9	158.0	138.7	126.4	122.9
40°	4358.9	4142.9	1904.7	310.7	254.5	205.4	159.7	129.9	115.9	105.3	101.8
42.5°	4994.4	4648.5	1527.3	282.6	222.9	172.0	129.9	107.1	94.8	87.8	86.0
45°	5736.9	5141.8	1128.8	254.5	193.1	142.2	107.1	87.8	79.0	73.7	72.0
47.5°	6497.0	5573.7	779.4	224.7	165.0	117.6	89.5	75.5	68.5	61.4	59.7
50°	7308.1	5938.8	531.9	194.9	140.4	96.6	77.2	68.5	59.7	54.4	52.7
52.5°	7903.2	6074.0	370.4	168.5	119.4	82.5	68.5	61.4	54.4	47.4	45.6
55°	8452.7	6070.5	280.9	142.2	101.8	72.0	61.4	54.4	47.4	42.1	40.4
57.5°	9000.4	6023.1	221.2	121.1	87.8	65.0	54.4	47.4	43.9	36.9	35.1
60°	9355.0	5844.0	172.0	101.8	75.5	56.2	47.4	42.1	36.9	31.6	29.8
62.5°	9542.8	5594.7	131.7	80.8	61.4	49.2	42.1	36.9	31.6	26.3	24.6
65°	9288.3	5152.3	103.6	63.2	47.4	42.1	35.1	29.8	24.6	19.3	17.6
67.5°	8159.5	4344.8	80.8	50.9	36.9	31.6	29.8	24.6	17.6	14.0	12.3
70°	5766.8	2975.5	63.2	38.6	28.1	24.6	22.8	19.3	14.0	10.5	8.8
72.5°	3165.1	1500.9	45.6	28.1	21.1	19.3	17.6	15.8	12.3	8.8	8.8
75°	1218.3	412.5	33.4	19.3	14.0	14.0	12.3	12.3	10.5	7.0	7.0
77.5°	317.7	122.9	21.1	12.3	8.8	8.8	8.8	7.0	7.0	5.3	5.3
80°	101.8	40.4	12.3	8.8	7.0	5.3	5.3	3.5	5.3	3.5	3.5
82.5°	33.4	14.0	7.0	7.0	5.3	3.5	3.5	1.8	1.8	0.0	0.0
85°	12.3	7.0	5.3	3.5	3.5	3.5	1.8	0.0	0.0	0.0	0.0
87.5°	7.0	3.5	3.5	3.5	3.5	1.8	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)