

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: P638498

Luminaire Tested: GWS-SA4E-830-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638498  
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-SA4E-830-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) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

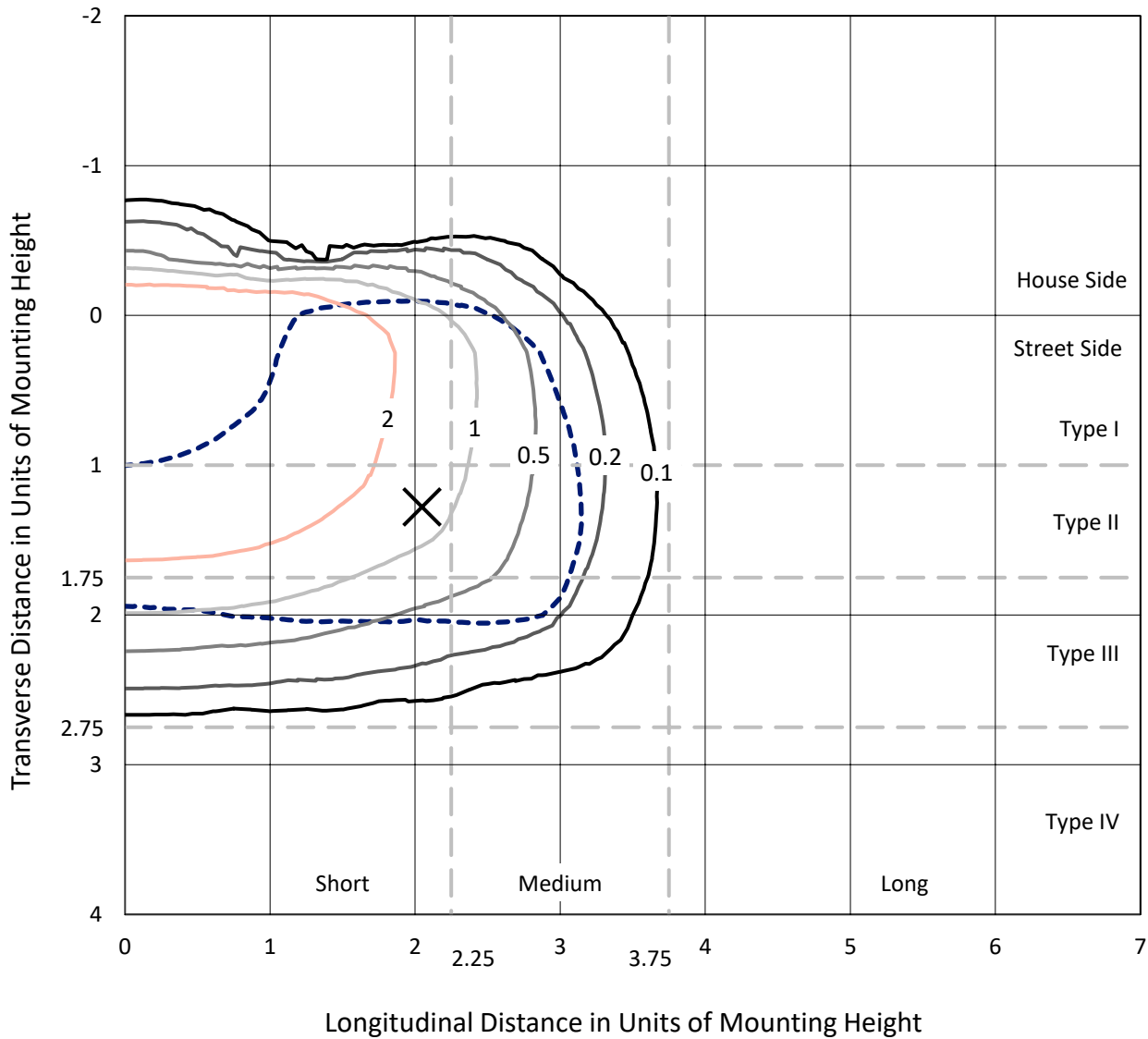
Lumens per Lamp: N/A  
Luminaire Lumens: 17847.4 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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: P638498  
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### Iso-Footcandle Lines of Horizontal Illumination

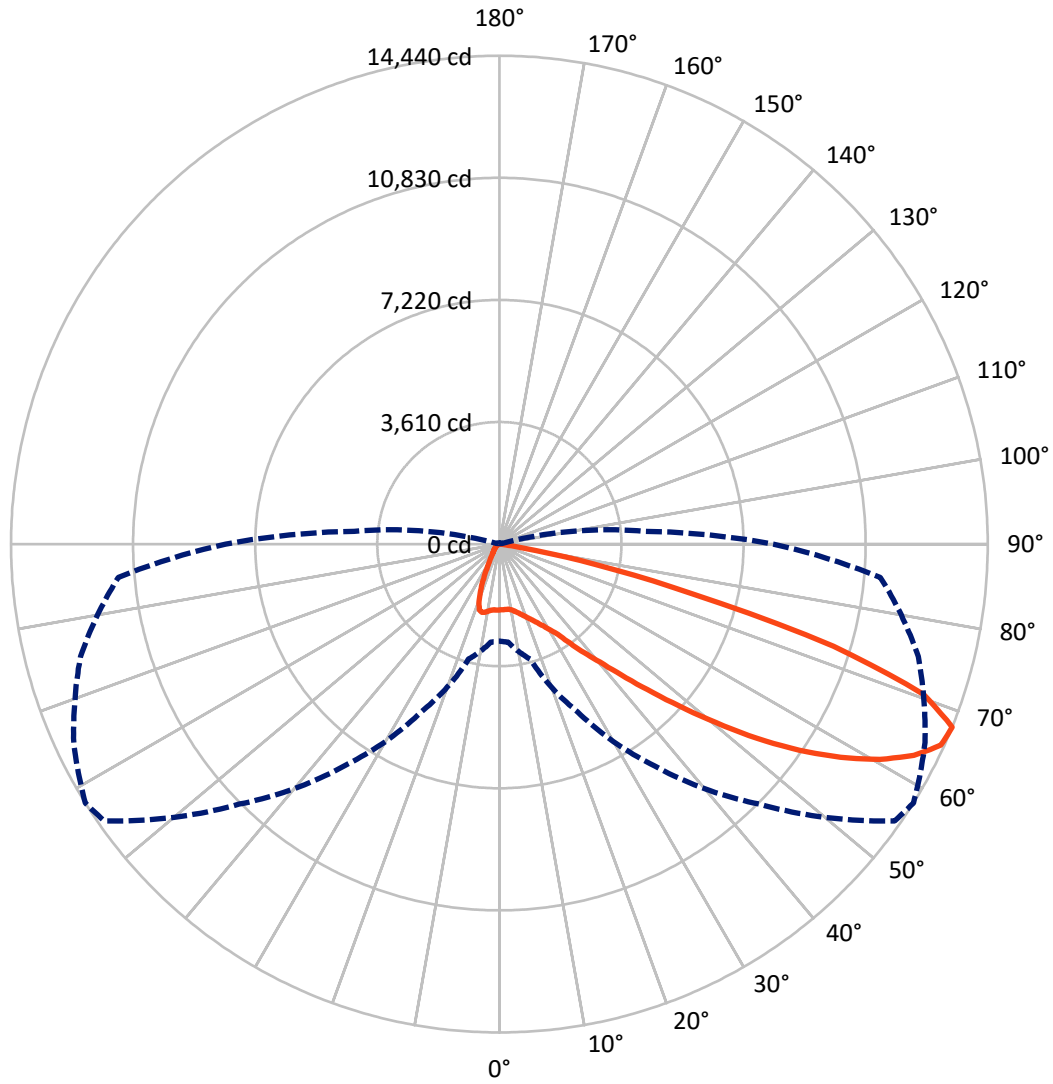
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type III - Short - N/A

REPORT NUMBER: P638498  
CATALOG NUMBER: GWS-SA4E-830-U-T3-W-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P638498

CATALOG NUMBER: GWS-SA4E-830-U-T3-W-HSS

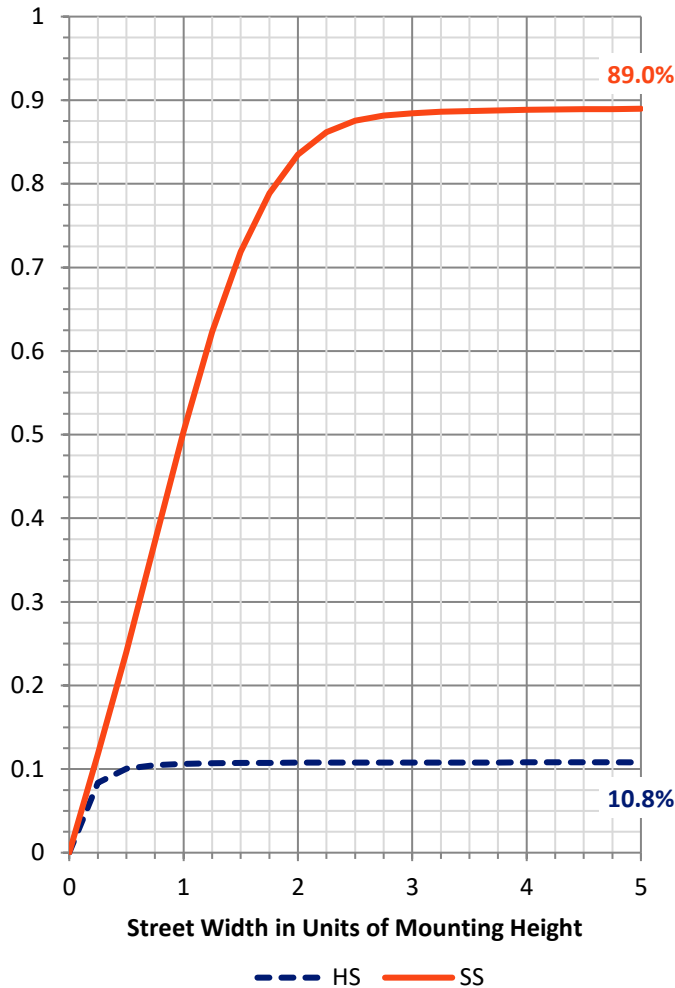
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1947.1	0.0	1947.1
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	15900.3	0.0	15900.3
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	17847.4	0.0	17847.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.7	1.0
10°-20°	513.0	2.9
20°-30°	895.4	5.0
30°-40°	1599.0	9.0
40°-50°	2922.7	16.4
50°-60°	4860.8	27.2
60°-70°	5279.6	29.6
70°-80°	1550.1	8.7
80°-90°	44.1	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°	17847.4	100.0
0°-180°	17847.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P638498

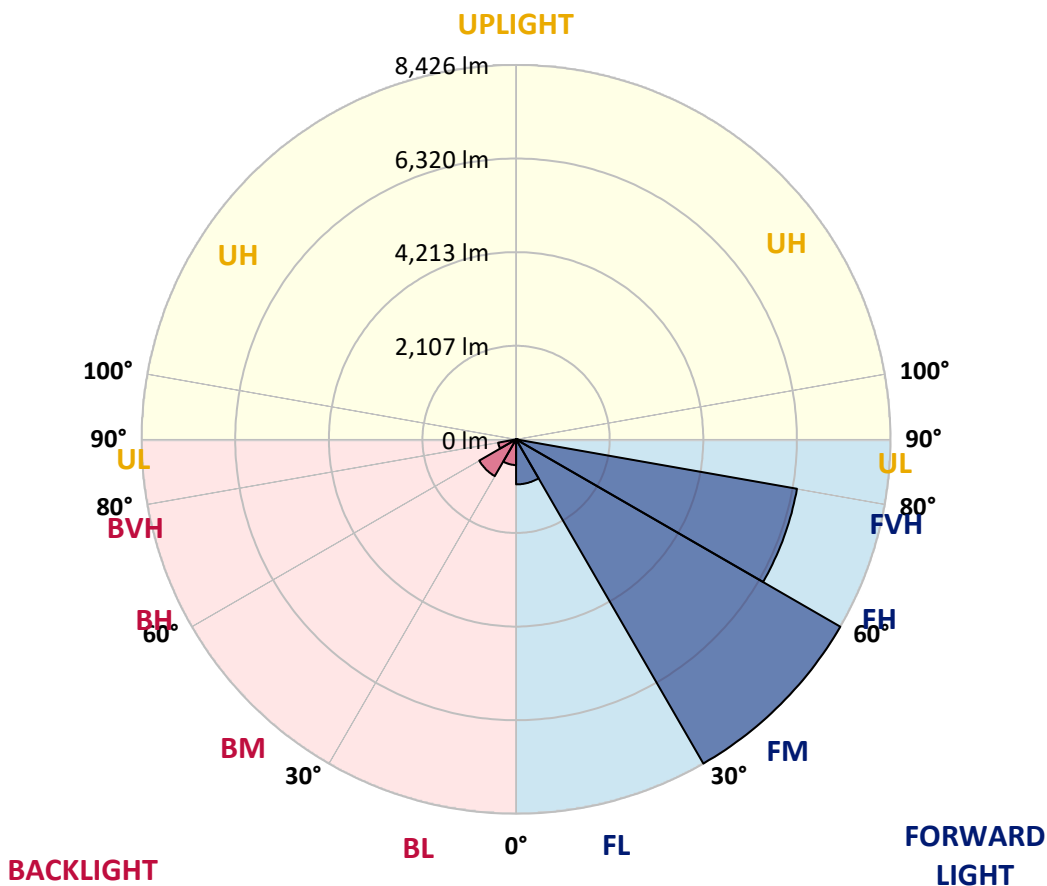
CATALOG NUMBER: GWS-SA4E-830-U-T3-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1013.5	5.7			
FM (30°-60°)	8426.1	47.2			
FH (60°-80°)	6418.7	36.0			G3/7500
FVH (80°-90°)	42.0	0.2			G1/100
BL (0°-30°)	577.6	3.2	B2/1000		
BM (30°-60°)	956.4	5.4	B1/1000		
BH (60°-80°)	411.0	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: P638498

CATALOG NUMBER: GWS-SA4E-830-U-T3-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1944.8	1944.8	1944.8	1944.8	1944.8	1944.8	1944.8	1944.8	1944.8	1944.8	1944.8
2.5°	1908.2	1904.8	1904.8	1918.7	1920.4	1927.4	1943.1	1944.8	1953.5	1950.1	1937.9
5°	1808.9	1810.6	1821.1	1845.5	1866.4	1892.6	1930.9	1939.6	1958.8	1969.2	1962.3
7.5°	1716.5	1718.3	1734.0	1772.3	1812.4	1864.7	1927.4	1944.8	1983.2	2011.1	2012.8
10°	1681.7	1679.9	1695.6	1739.2	1791.5	1864.7	1955.3	1977.9	2035.5	2084.2	2093.0
12.5°	1692.1	1690.4	1706.1	1746.2	1803.7	1896.0	2004.1	2035.5	2108.6	2183.6	2199.3
15°	1734.0	1732.2	1742.7	1775.8	1838.5	1934.4	2066.8	2113.9	2206.2	2296.9	2321.3
17.5°	1859.4	1850.7	1840.3	1843.8	1880.4	1979.7	2147.0	2204.5	2319.5	2427.6	2448.5
20°	2082.5	2059.9	2032.0	1995.4	1977.9	2045.9	2239.3	2305.6	2445.0	2568.7	2572.2
22.5°	2418.8	2410.1	2345.7	2239.3	2164.4	2166.2	2347.4	2424.1	2594.9	2730.8	2711.6
25°	2887.6	2882.4	2783.1	2608.8	2413.6	2347.4	2485.1	2563.5	2772.6	2917.3	2856.3
27.5°	3469.7	3433.1	3316.3	3081.1	2790.0	2582.7	2659.3	2729.0	2960.8	3096.7	2981.7
30°	3976.8	3978.5	3868.8	3623.0	3295.4	2936.4	2871.9	2932.9	3133.3	3276.2	3136.8
32.5°	4464.8	4480.4	4360.2	4138.9	3779.9	3398.2	3176.9	3187.4	3354.7	3509.8	3340.7
35°	4917.8	4930.0	4846.4	4658.2	4323.6	3881.0	3602.1	3596.9	3687.5	3846.1	3624.8
37.5°	5425.0	5437.2	5355.3	5186.2	4872.5	4433.4	4084.8	4077.9	4114.5	4243.4	3990.7
40°	5965.2	5987.9	5897.2	5754.3	5454.6	5083.4	4646.0	4583.3	4546.7	4698.3	4464.8
42.5°	6512.4	6547.3	6515.9	6373.0	6116.8	5810.1	5374.4	5276.8	5198.4	5388.4	5140.9
45°	7192.0	7233.9	7219.9	7110.1	6911.5	6662.3	6251.0	6137.7	6101.1	6277.1	5982.6
47.5°	7845.6	7890.9	7941.4	7917.0	7775.8	7660.8	7204.2	7139.8	7129.3	7317.5	6860.9
50°	8331.8	8373.6	8567.0	8706.4	8802.3	8777.9	8382.3	8286.5	8270.8	8391.0	7788.0
52.5°	8680.3	8720.4	8987.0	9422.7	9774.7	9966.4	9567.3	9546.4	9461.0	9419.2	8655.9
55°	8950.4	9006.2	9286.8	9945.5	10654.8	11080.0	10830.8	10755.8	10536.3	10295.8	9461.0
57.5°	9004.4	9027.1	9422.7	10311.5	11337.9	12026.3	12026.3	11895.5	11472.1	11139.2	10391.6
60°	8520.0	8589.7	9124.7	10281.8	11630.7	12644.9	13017.8	12927.2	12355.6	11946.1	11287.4
62.5°	7444.7	7523.2	8174.9	9572.6	11337.9	12772.1	13768.9	13755.0	13110.2	12613.5	12029.7
65°	5709.0	5766.5	6334.6	8007.6	10100.6	12282.4	14305.7	14344.0	13706.2	13054.4	12285.9
67.5°	2868.5	2908.5	3522.0	5470.3	8005.9	10872.6	14269.1	14439.9	13887.4	12820.9	11308.3
70°	1002.0	1042.1	1331.4	2347.4	4872.5	8302.1	13035.3	13314.1	12822.7	10944.0	8342.2
72.5°	343.3	362.5	552.4	871.3	1896.0	4921.3	9912.4	10332.4	9452.3	7347.1	4794.1
75°	195.2	207.4	296.3	472.3	794.7	1619.0	5623.6	5881.6	5510.4	4004.7	1972.7
77.5°	132.4	142.9	184.7	268.4	439.2	521.1	2293.4	2887.6	2518.2	1307.0	503.6
80°	78.4	85.4	113.3	158.6	224.8	202.2	491.4	653.5	841.7	390.4	151.6
82.5°	36.6	41.8	73.2	104.6	113.3	85.4	144.6	176.0	237.0	191.7	62.7
85°	0.0	0.0	24.4	43.6	41.8	24.4	40.1	43.6	64.5	95.8	24.4
87.5°	0.0	0.0	0.0	0.0	0.0	1.7	3.5	5.2	10.5	19.2	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: P638498

CATALOG NUMBER: GWS-SA4E-830-U-T3-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1944.8	1944.8	1944.8	1944.8	1944.8	1944.8	1944.8	1944.8	1944.8	1944.8	1944.8
2.5°	1951.8	1939.6	1953.5	1946.6	1953.5	1951.8	1937.9	1929.1	1929.1	1913.5	1908.2
5°	1976.2	1964.0	1967.5	1951.8	1948.3	1939.6	1922.2	1915.2	1915.2	1899.5	1894.3
7.5°	2030.2	2011.1	2007.6	1976.2	1962.3	1937.9	1906.5	1894.3	1892.6	1876.9	1871.6
10°	2115.6	2093.0	2077.3	2037.2	1997.1	1948.3	1882.1	1826.3	1795.0	1753.1	1749.7
12.5°	2220.2	2192.3	2167.9	2106.9	2040.7	1930.9	1735.7	1531.8	1406.3	1307.0	1314.0
15°	2336.9	2310.8	2272.5	2180.1	2044.2	1758.4	1350.6	1036.9	883.5	801.6	798.1
17.5°	2464.2	2425.8	2363.1	2237.6	1934.4	1343.6	878.3	620.4	540.2	512.3	505.4
20°	2582.7	2535.6	2457.2	2249.8	1617.2	909.7	548.9	481.0	467.0	458.3	458.3
22.5°	2708.1	2648.9	2532.1	2155.7	1202.5	582.1	467.0	451.4	440.9	428.7	427.0
25°	2835.3	2758.7	2600.1	1910.0	787.7	458.3	437.4	420.0	400.8	381.6	376.4
27.5°	2943.4	2844.1	2652.4	1544.0	505.4	413.0	399.1	369.4	343.3	322.4	318.9
30°	3072.3	2945.1	2675.0	1129.3	397.3	364.2	343.3	311.9	280.6	259.7	252.7
32.5°	3244.9	3105.5	2640.2	735.4	352.0	320.7	287.5	250.9	219.6	196.9	193.4
35°	3513.2	3347.7	2479.8	468.8	318.9	277.1	237.0	198.7	172.5	155.1	151.6
37.5°	3840.9	3687.5	2216.7	352.0	285.8	240.5	193.4	156.8	137.7	125.5	122.0
40°	4327.1	4112.7	1890.8	308.5	252.7	203.9	158.6	129.0	115.0	104.6	101.1
42.5°	4957.9	4614.6	1516.1	280.6	221.3	170.8	129.0	106.3	94.1	87.1	85.4
45°	5695.1	5104.3	1120.5	252.7	191.7	141.2	106.3	87.1	78.4	73.2	71.4
47.5°	6449.7	5533.0	773.8	223.1	163.8	116.8	88.9	74.9	68.0	61.0	59.3
50°	7254.8	5895.5	528.0	193.4	139.4	95.8	76.7	68.0	59.3	54.0	52.3
52.5°	7845.6	6029.7	367.7	167.3	118.5	81.9	68.0	61.0	54.0	47.1	45.3
55°	8391.0	6026.2	278.8	141.2	101.1	71.4	61.0	54.0	47.1	41.8	40.1
57.5°	8934.7	5979.1	219.6	120.2	87.1	64.5	54.0	47.1	43.6	36.6	34.9
60°	9286.8	5801.4	170.8	101.1	74.9	55.8	47.1	41.8	36.6	31.4	29.6
62.5°	9473.2	5553.9	130.7	80.2	61.0	48.8	41.8	36.6	31.4	26.1	24.4
65°	9220.5	5114.8	102.8	62.7	47.1	41.8	34.9	29.6	24.4	19.2	17.4
67.5°	8100.0	4313.1	80.2	50.5	36.6	31.4	29.6	24.4	17.4	13.9	12.2
70°	5724.7	2953.8	62.7	38.3	27.9	24.4	22.7	19.2	13.9	10.5	8.7
72.5°	3142.1	1490.0	45.3	27.9	20.9	19.2	17.4	15.7	12.2	8.7	8.7
75°	1209.4	409.5	33.1	19.2	13.9	13.9	12.2	12.2	10.5	7.0	7.0
77.5°	315.4	122.0	20.9	12.2	8.7	8.7	8.7	7.0	7.0	5.2	5.2
80°	101.1	40.1	12.2	8.7	7.0	5.2	5.2	3.5	5.2	3.5	3.5
82.5°	33.1	13.9	7.0	7.0	5.2	3.5	3.5	1.7	1.7	0.0	0.0
85°	12.2	7.0	5.2	3.5	3.5	3.5	1.7	0.0	0.0	0.0	0.0
87.5°	7.0	3.5	3.5	3.5	3.5	1.7	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)