

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: P635190

Luminaire Tested: GWS-SA3D-730-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635190  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3D-730-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

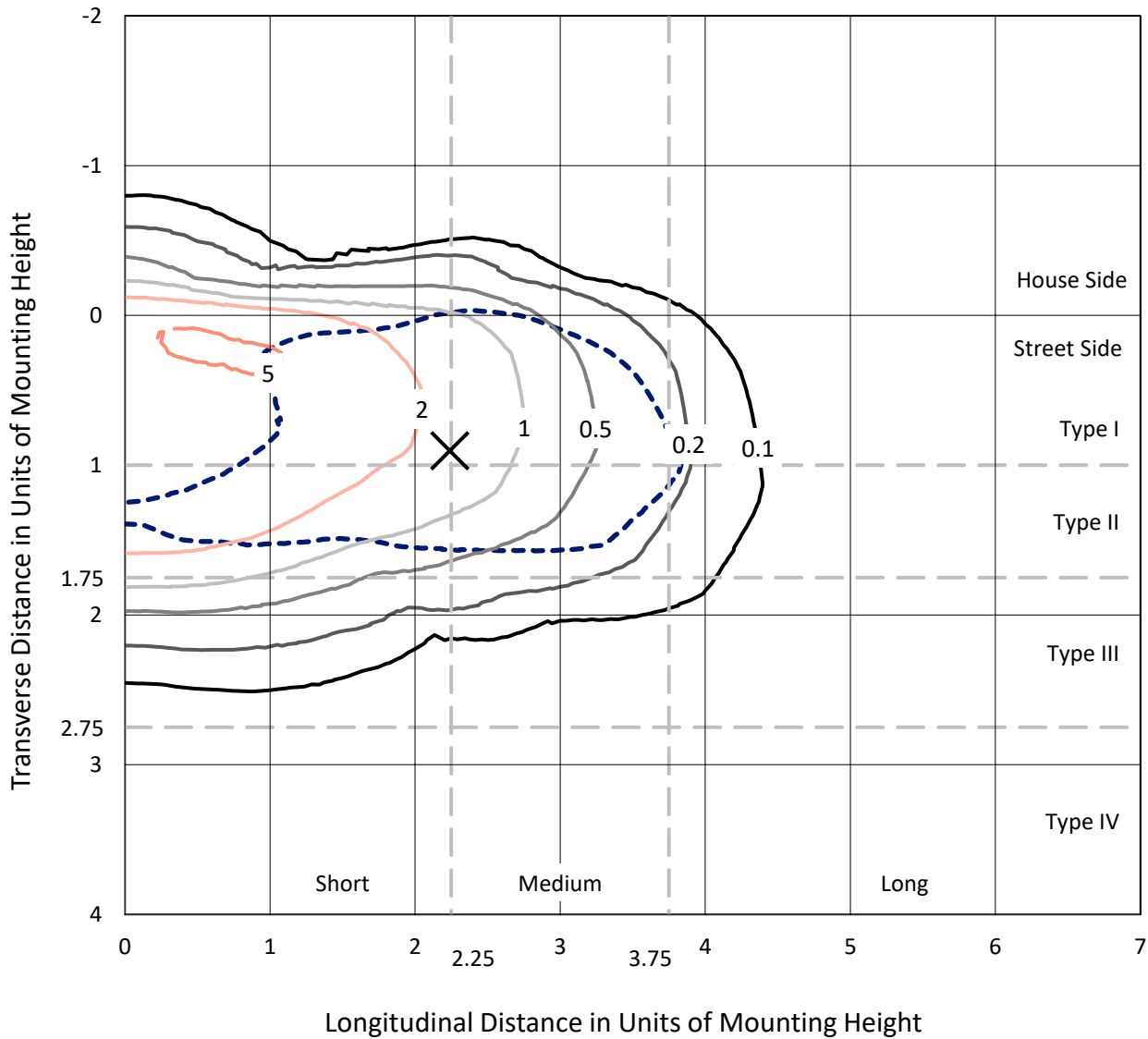
Lumens per Lamp: N/A  
Luminaire Lumens: 12003.8 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 120.8  
Input Voltage (V): 120  
Input Current (Ain): 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

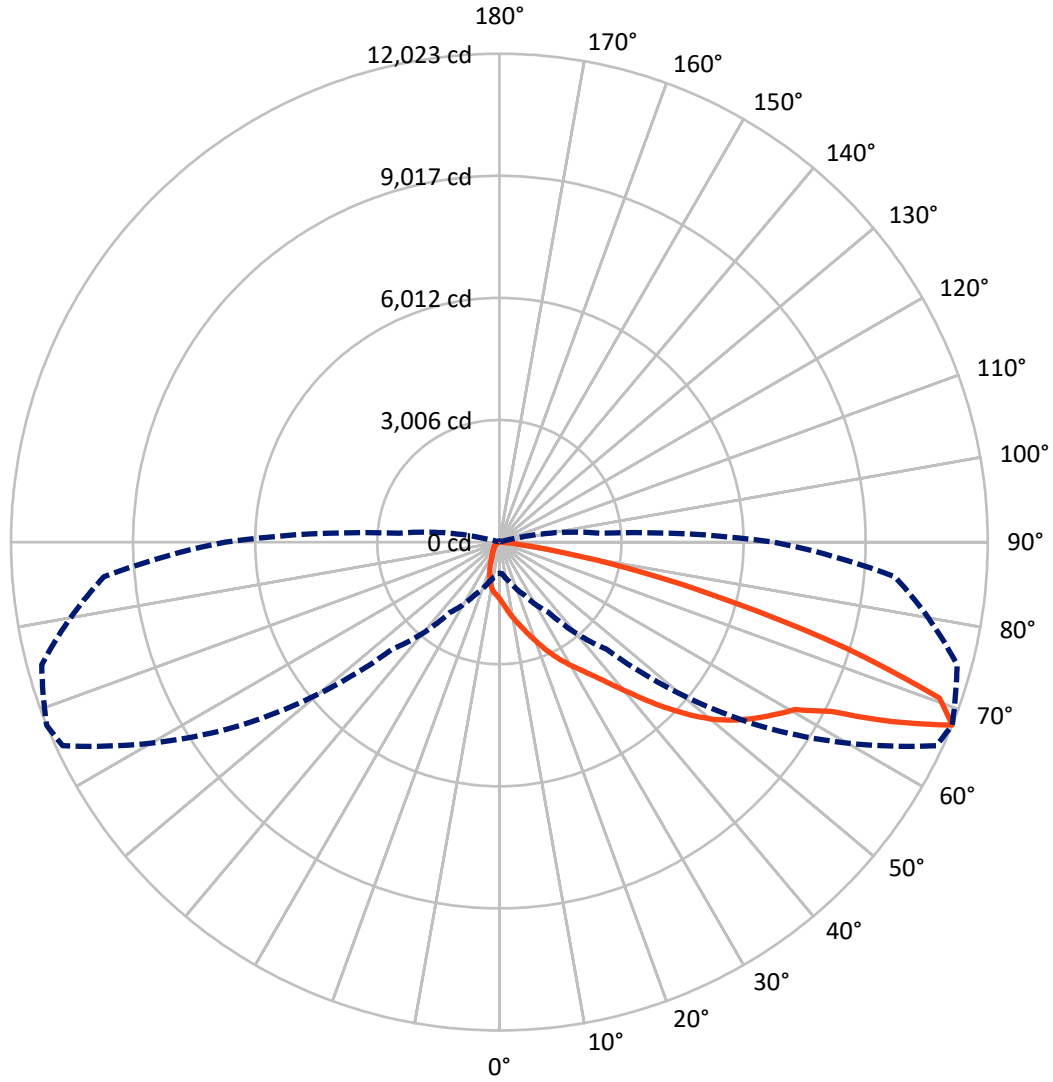
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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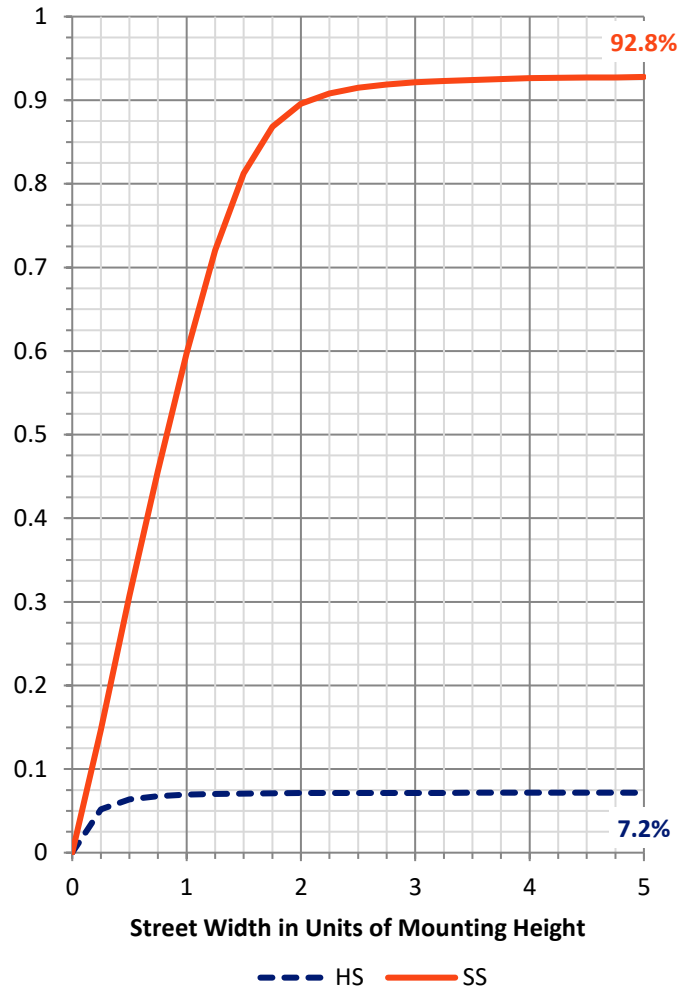
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	866.8	0.0	866.8
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	11137.0	0.0	11137.0
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	12003.8	0.0	12003.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.2	1.1
10°-20°	391.3	3.3
20°-30°	672.4	5.6
30°-40°	1169.0	9.7
40°-50°	2039.8	17.0
50°-60°	3076.5	25.6
60°-70°	3084.9	25.7
70°-80°	1361.1	11.3
80°-90°	72.7	0.6
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°	12003.8	100.0
0°-180°	12003.8	100.0

**Coefficient of Utilization**

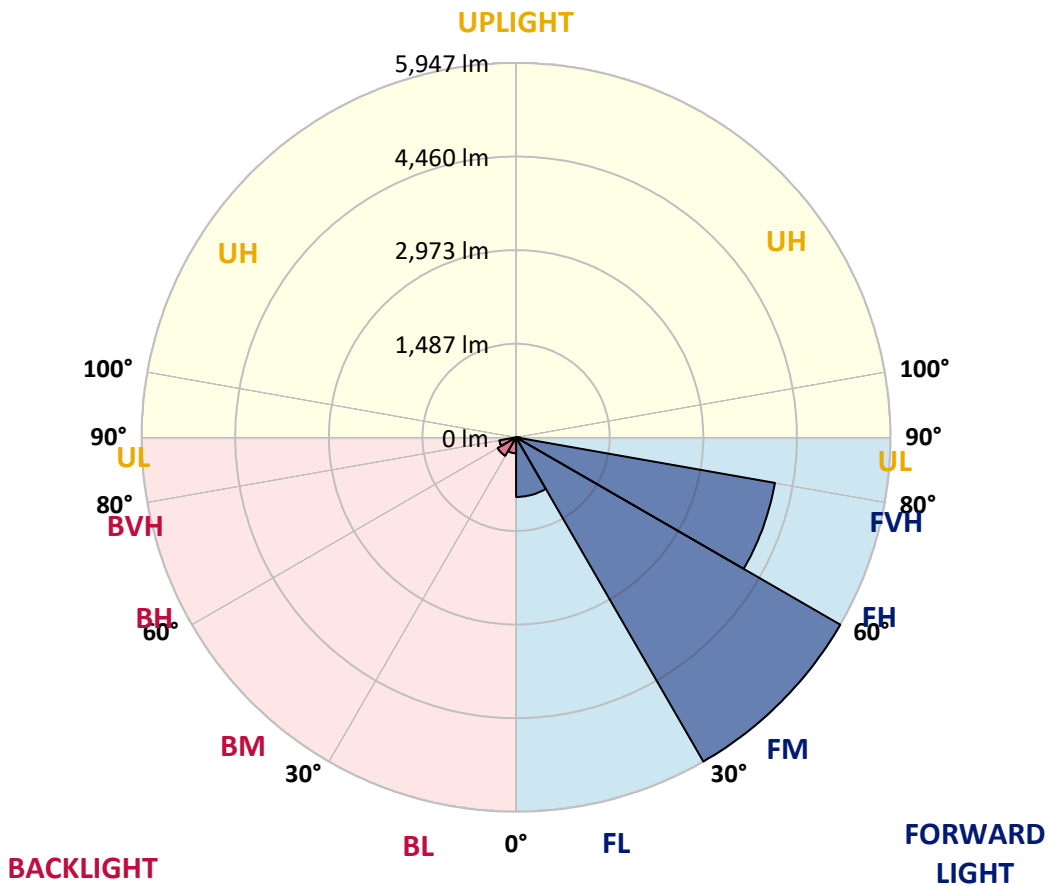


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	946.3	7.9			
FM (30°-60°)	5946.7	49.5			
FH (60°-80°)	4175.5	34.8			G2/5000
FVH (80°-90°)	68.6	0.6			G1/100
BL (0°-30°)	253.6	2.1	B1/500		
BM (30°-60°)	338.6	2.8	B1/1000		
BH (60°-80°)	270.5	2.3	B1/500		G1/500
BVH (80°-90°)	4.1	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1396.9	1396.9	1396.9	1396.9	1396.9	1396.9	1396.9	1396.9	1396.9	1396.9	1396.9
2.5°	1626.7	1637.0	1626.7	1629.0	1599.1	1585.3	1555.5	1514.1	1503.8	1477.4	1437.1
5°	1825.4	1834.6	1824.3	1822.0	1787.5	1762.3	1712.9	1641.6	1621.0	1569.3	1490.0
7.5°	1933.4	1939.2	1942.6	1948.4	1935.7	1915.0	1870.2	1781.8	1760.0	1676.1	1564.7
10°	1944.9	1949.5	1966.7	2001.2	2026.5	2039.1	2013.8	1932.3	1897.8	1816.2	1656.6
12.5°	1912.7	1919.6	1947.2	2004.7	2074.7	2139.1	2155.1	2083.9	2052.9	1948.4	1764.6
15°	1870.2	1876.0	1913.9	1992.0	2097.7	2216.0	2282.7	2251.6	2217.2	2108.0	1884.0
17.5°	1804.8	1812.8	1865.6	1971.3	2108.0	2276.9	2420.5	2430.9	2406.7	2288.4	2016.1
20°	1768.0	1773.7	1820.8	1930.0	2101.1	2321.7	2549.2	2646.8	2620.4	2496.3	2167.8
22.5°	1799.0	1803.6	1834.6	1919.6	2078.2	2347.0	2668.7	2862.8	2847.9	2719.2	2327.5
25°	1962.1	1977.1	1958.7	1973.6	2088.5	2360.8	2765.2	3078.8	3082.2	2952.4	2492.9
27.5°	2293.0	2273.5	2229.8	2155.1	2168.9	2397.5	2847.9	3282.1	3312.0	3179.9	2639.9
30°	2629.6	2618.1	2591.7	2475.7	2379.2	2479.1	2917.9	3490.0	3537.1	3403.9	2770.9
32.5°	3007.6	3019.0	2971.9	2832.9	2668.7	2644.5	2990.3	3687.6	3776.1	3657.8	2924.8
35°	3459.0	3462.5	3369.4	3215.5	3029.4	2917.9	3120.1	3905.9	4069.0	3981.7	3130.5
37.5°	3899.0	3919.7	3869.1	3626.8	3461.3	3258.0	3335.0	4186.2	4416.0	4381.5	3389.0
40°	4288.5	4320.6	4304.5	4070.2	3853.1	3681.9	3668.1	4514.8	4835.3	4874.3	3730.1
42.5°	4598.6	4619.3	4631.9	4465.4	4273.5	4177.0	4079.4	4896.2	5330.4	5490.1	4148.3
45°	4926.0	4932.9	4959.4	4846.8	4679.0	4687.1	4565.3	5359.1	5852.0	6172.5	4628.5
47.5°	5343.1	5366.0	5353.4	5235.1	5083.4	5174.2	5067.3	5835.9	6366.6	6900.8	5120.2
50°	5850.8	5874.9	5863.5	5725.6	5556.7	5594.6	5528.0	6298.9	6862.9	7587.8	5529.2
52.5°	6112.7	6132.3	6274.7	6336.8	6248.3	6007.1	5920.9	6807.8	7282.2	8153.0	5904.8
55°	5986.4	6000.2	6310.3	6572.3	6896.2	6655.0	6316.1	7200.7	7652.1	8594.2	6184.0
57.5°	5462.5	5537.2	5958.8	6402.2	7083.5	7294.9	6957.1	7628.0	8008.3	8900.9	6458.5
60°	4388.4	4385.0	4989.2	5785.3	6718.2	7470.6	7862.4	8205.9	8365.5	9136.4	6826.2
62.5°	2425.1	2446.9	3251.1	4299.9	5702.6	7015.7	8541.3	9204.2	9180.0	9547.7	7401.7
65°	1207.4	1251.0	1687.6	2463.0	3794.5	5798.0	8658.5	10727.5	10658.5	10516.1	8590.7
67.5°	766.2	783.5	1024.7	1431.4	2109.2	3726.7	7929.0	11863.6	12023.3	11664.9	9770.5
70°	496.3	525.0	712.3	978.8	1272.9	1920.8	5808.3	11127.2	11493.7	11538.5	9035.3
72.5°	270.0	290.6	454.9	698.5	919.0	960.4	3262.6	8350.6	8939.9	9787.8	7068.5
75°	153.9	168.9	249.3	474.5	674.3	584.7	1446.3	5590.0	5965.7	6995.0	5065.0
77.5°	93.1	105.7	140.2	230.9	422.8	390.6	546.8	3402.7	3641.7	4173.6	2658.3
80°	42.5	50.5	88.5	127.5	230.9	185.0	209.1	1586.5	1638.2	1712.9	880.0
82.5°	19.5	23.0	40.2	75.8	131.0	106.8	80.4	366.5	515.8	488.2	224.0
85°	2.3	2.3	14.9	31.0	36.8	27.6	33.3	82.7	104.5	147.0	64.3
87.5°	0.0	0.0	1.1	1.1	2.3	3.4	6.9	10.3	14.9	24.1	16.1
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°	1396.9	1396.9	1396.9	1396.9	1396.9	1396.9	1396.9	1396.9	1396.9	1396.9	1396.9
2.5°	1418.8	1386.6	1357.9	1315.4	1286.7	1254.5	1232.7	1206.2	1195.9	1187.9	1176.4
5°	1450.9	1399.2	1329.2	1251.0	1186.7	1125.8	1069.5	1032.8	1000.6	996.0	979.9
7.5°	1503.8	1426.8	1308.5	1181.0	1071.8	970.7	891.5	827.1	795.0	784.6	766.2
10°	1573.9	1468.2	1277.5	1082.2	924.8	804.2	714.6	642.2	591.6	573.2	559.5
12.5°	1652.0	1506.1	1228.1	960.4	781.2	643.3	529.6	452.6	420.5	409.0	398.6
15°	1741.6	1541.7	1149.9	838.6	641.0	473.3	392.9	359.6	345.8	342.3	338.9
17.5°	1827.7	1564.7	1056.9	712.3	492.8	367.6	329.7	317.1	313.6	310.2	307.9
20°	1925.4	1580.7	947.8	592.8	382.5	311.3	292.9	283.8	276.9	270.0	268.8
22.5°	2025.3	1580.7	829.4	475.6	320.5	279.2	258.5	241.2	228.6	221.7	219.4
25°	2120.7	1558.9	712.3	380.3	282.6	248.1	221.7	202.2	185.0	176.9	174.6
27.5°	2188.5	1502.6	610.0	321.7	256.2	220.6	188.4	166.6	152.8	144.7	143.6
30°	2231.0	1418.8	515.8	287.2	233.2	191.8	159.7	141.3	131.0	125.2	122.9
32.5°	2263.1	1315.4	431.9	263.1	211.4	166.6	139.0	124.1	114.9	110.3	109.1
35°	2327.5	1217.7	369.9	241.2	188.4	145.9	121.8	110.3	103.4	97.6	96.5
37.5°	2417.1	1136.2	320.5	221.7	166.6	129.8	110.3	99.9	94.2	88.5	87.3
40°	2549.2	1084.5	283.8	202.2	147.0	117.2	101.1	91.9	83.9	78.1	77.0
42.5°	2752.5	1060.3	259.6	182.7	129.8	105.7	93.1	81.6	73.5	67.8	66.6
45°	2994.9	1073.0	238.9	163.1	118.3	97.6	82.7	71.2	63.2	57.4	56.3
47.5°	3254.5	1117.8	221.7	144.7	106.8	89.6	73.5	60.9	54.0	48.2	47.1
50°	3525.7	1191.3	206.8	127.5	97.6	80.4	63.2	52.8	46.0	41.4	40.2
52.5°	3761.2	1291.2	191.8	114.9	89.6	71.2	55.1	46.0	39.1	34.5	33.3
55°	3986.3	1385.4	180.4	103.4	80.4	62.0	48.2	39.1	33.3	28.7	27.6
57.5°	4231.0	1485.4	166.6	93.1	72.4	55.1	42.5	33.3	28.7	24.1	23.0
60°	4587.1	1633.6	145.9	85.0	63.2	48.2	36.8	29.9	25.3	19.5	18.4
62.5°	5100.7	1903.6	122.9	73.5	54.0	41.4	31.0	25.3	20.7	16.1	13.8
65°	6061.1	2363.1	101.1	60.9	43.7	34.5	26.4	20.7	16.1	11.5	10.3
67.5°	6752.6	2482.6	81.6	49.4	35.6	26.4	21.8	16.1	11.5	8.0	6.9
70°	5903.7	1782.9	63.2	40.2	29.9	20.7	17.2	12.6	8.0	5.7	4.6
72.5°	4448.1	1164.9	47.1	31.0	23.0	17.2	12.6	10.3	6.9	4.6	3.4
75°	3135.1	673.2	34.5	23.0	16.1	12.6	10.3	8.0	5.7	3.4	3.4
77.5°	1607.2	278.0	24.1	16.1	11.5	8.0	6.9	4.6	4.6	3.4	2.3
80°	488.2	91.9	13.8	10.3	8.0	5.7	3.4	3.4	3.4	2.3	1.1
82.5°	111.4	29.9	8.0	8.0	5.7	4.6	3.4	1.1	1.1	0.0	0.0
85°	28.7	9.2	6.9	5.7	5.7	4.6	2.3	1.1	0.0	0.0	0.0
87.5°	10.3	5.7	5.7	5.7	4.6	3.4	2.3	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)