

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: P632715

Luminaire Tested: GWS-SA2D-730-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632715  
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-SA2D-730-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

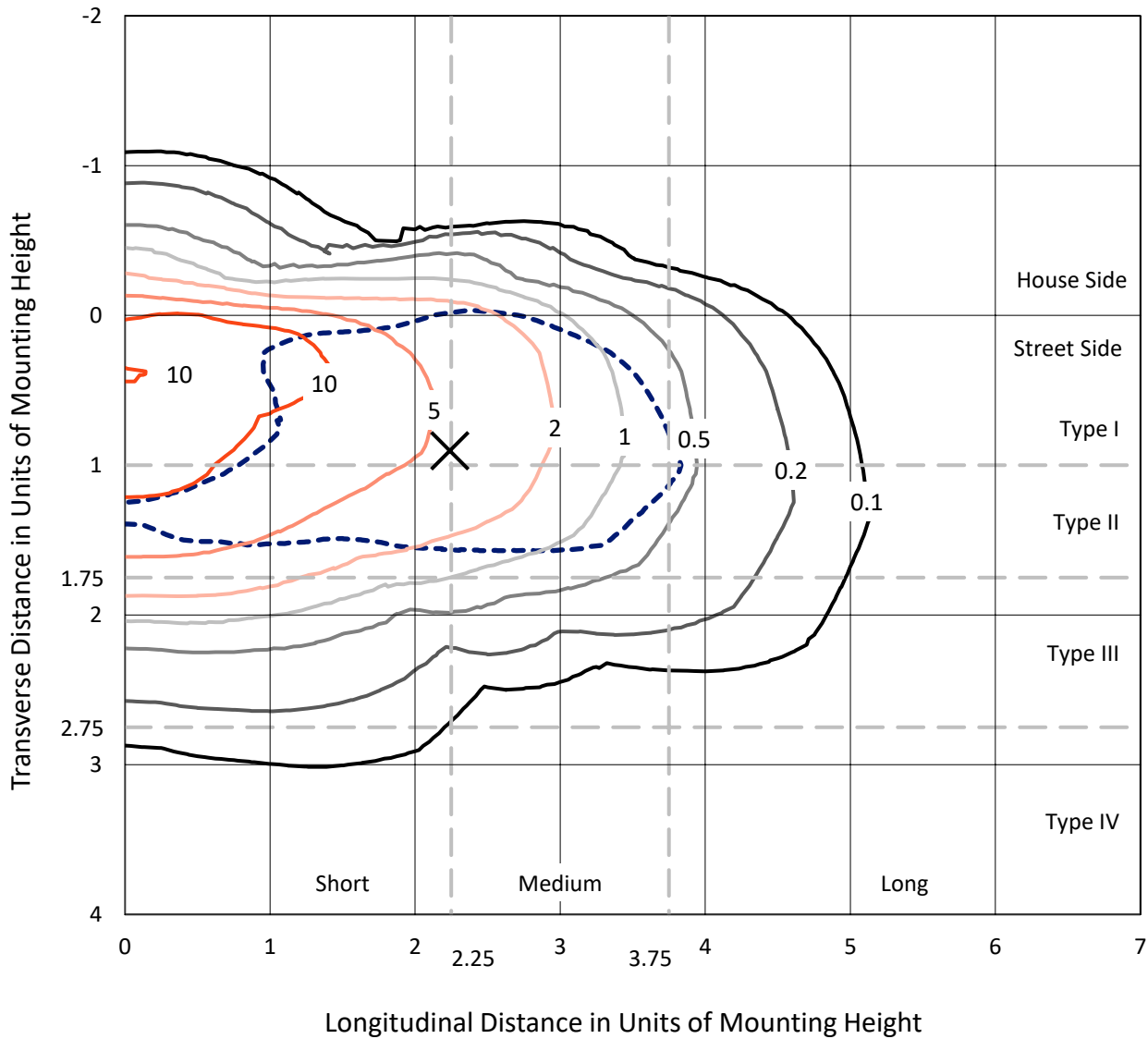
Lumens per Lamp: N/A  
Luminaire Lumens: 7964.3 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

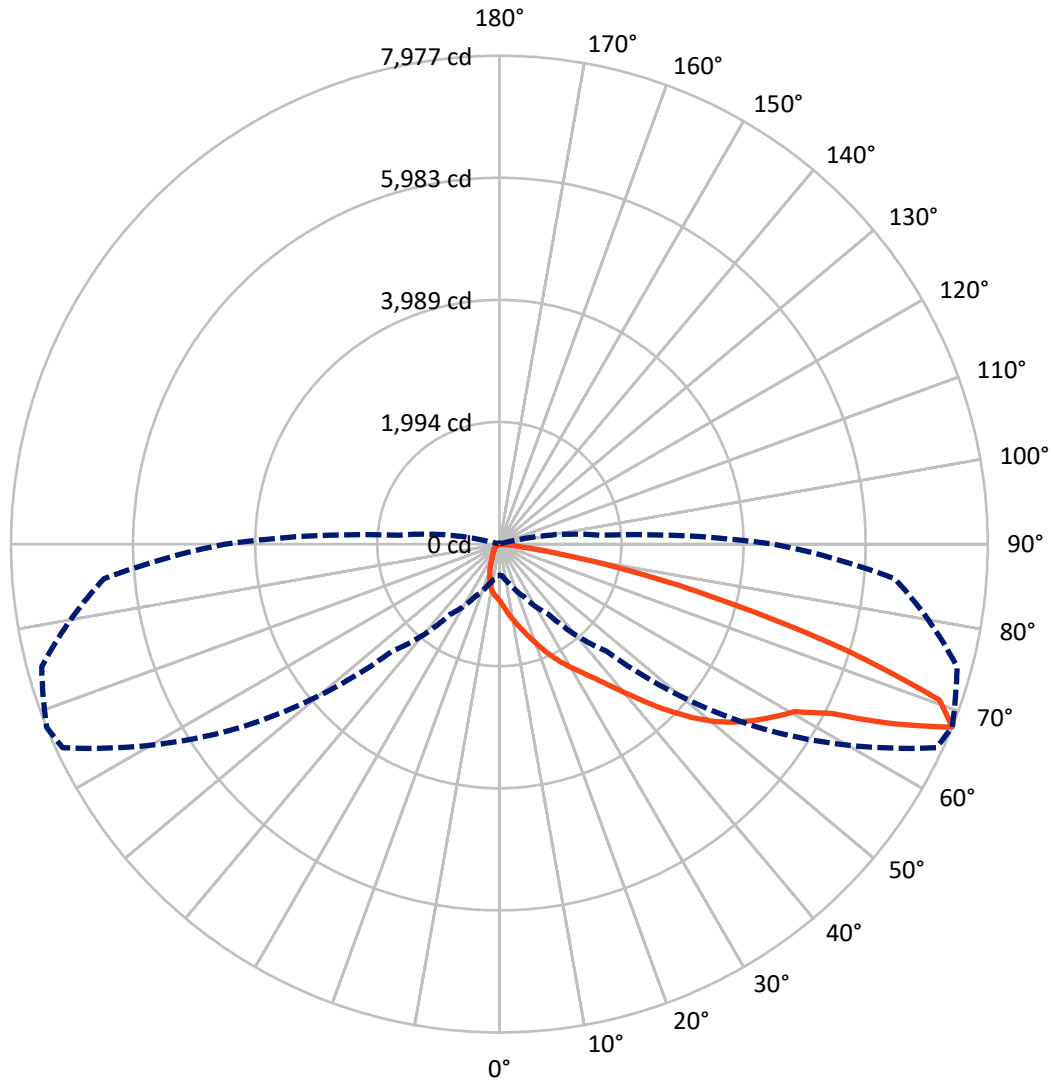
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P632715  
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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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 CATALOG NUMBER: GWS-SA2D-730-U-T2-W-HSS

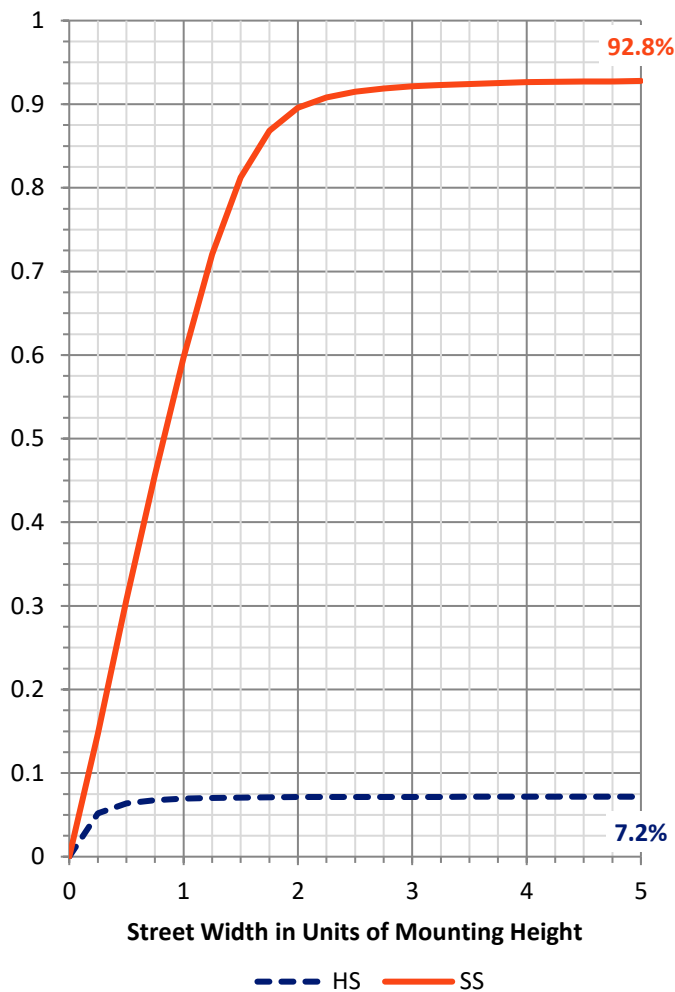
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	575.1	0.0	575.1
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	7389.2	0.0	7389.2
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	7964.3	0.0	7964.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.4	1.1
10°-20°	259.6	3.3
20°-30°	446.1	5.6
30°-40°	775.6	9.7
40°-50°	1353.3	17.0
50°-60°	2041.2	25.6
60°-70°	2046.8	25.7
70°-80°	903.0	11.3
80°-90°	48.2	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°	7964.3	100.0
0°-180°	7964.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P632715

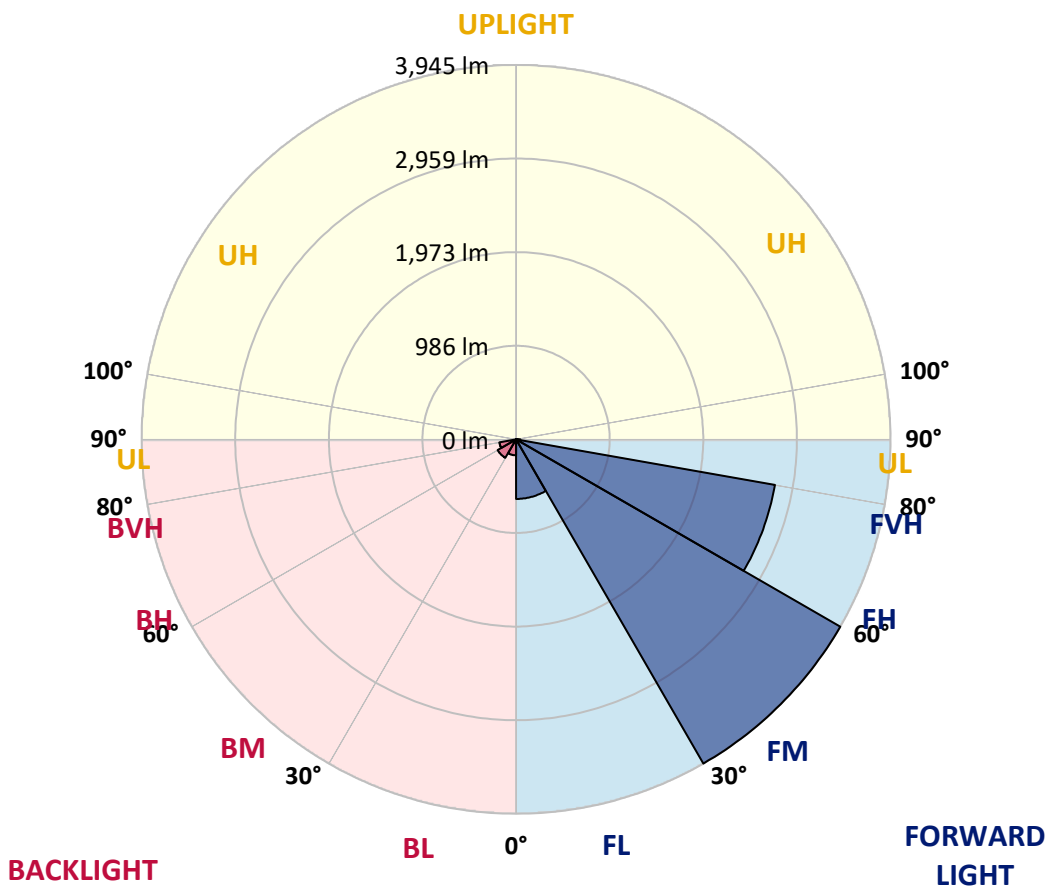
CATALOG NUMBER: GWS-SA2D-730-U-T2-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	627.8	7.9			
FM (30°-60°)	3945.5	49.5			
FH (60°-80°)	2770.3	34.8			G2/5000
FVH (80°-90°)	45.5	0.6			G1/100
BL (0°-30°)	168.3	2.1	B1/500		
BM (30°-60°)	224.7	2.8	B1/1000		
BH (60°-80°)	179.5	2.3	B1/500		G1/500
BVH (80°-90°)	2.7	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°	926.8	926.8	926.8	926.8	926.8	926.8	926.8	926.8	926.8	926.8	926.8
2.5°	1079.3	1086.1	1079.3	1080.8	1061.0	1051.8	1032.0	1004.6	997.7	980.2	953.5
5°	1211.1	1217.2	1210.4	1208.9	1186.0	1169.2	1136.4	1089.2	1075.5	1041.2	988.6
7.5°	1282.8	1286.6	1288.9	1292.7	1284.3	1270.6	1240.9	1182.2	1167.7	1112.1	1038.1
10°	1290.4	1293.5	1304.9	1327.8	1344.5	1352.9	1336.1	1282.0	1259.2	1205.0	1099.1
12.5°	1269.1	1273.6	1291.9	1330.0	1376.5	1419.2	1429.9	1382.6	1362.1	1292.7	1170.7
15°	1240.9	1244.7	1269.8	1321.7	1391.8	1470.3	1514.5	1493.9	1471.1	1398.6	1250.0
17.5°	1197.4	1202.8	1237.8	1307.9	1398.6	1510.7	1606.0	1612.8	1596.8	1518.3	1337.7
20°	1173.0	1176.8	1208.1	1280.5	1394.1	1540.4	1691.3	1756.1	1738.6	1656.3	1438.3
22.5°	1193.6	1196.7	1217.2	1273.6	1378.8	1557.2	1770.6	1899.4	1889.5	1804.1	1544.2
25°	1301.8	1311.8	1299.6	1309.5	1385.7	1566.3	1834.6	2042.7	2045.0	1958.9	1654.0
27.5°	1521.4	1508.4	1479.4	1429.9	1439.0	1590.7	1889.5	2177.6	2197.4	2109.8	1751.5
30°	1744.7	1737.1	1719.5	1642.6	1578.5	1644.8	1936.0	2315.6	2346.8	2258.4	1838.4
32.5°	1995.5	2003.1	1971.8	1879.6	1770.6	1754.6	1984.0	2446.7	2505.4	2426.9	1940.6
35°	2295.0	2297.3	2235.5	2133.4	2009.9	1936.0	2070.2	2591.5	2699.7	2641.8	2077.0
37.5°	2586.9	2600.6	2567.1	2406.3	2296.5	2161.6	2212.7	2777.5	2929.9	2907.1	2248.5
40°	2845.3	2866.7	2856.0	2700.5	2556.4	2442.9	2433.7	2995.5	3208.1	3234.0	2474.9
42.5°	3051.1	3064.8	3073.2	2962.7	2835.4	2771.4	2706.6	3248.5	3536.6	3642.6	2752.3
45°	3268.3	3272.9	3290.4	3215.7	3104.5	3109.8	3029.0	3555.7	3882.7	4095.3	3070.9
47.5°	3545.0	3560.3	3551.9	3473.4	3372.8	3433.0	3362.1	3872.0	4224.1	4578.6	3397.2
50°	3881.9	3897.9	3890.3	3798.8	3686.8	3711.9	3667.7	4179.2	4553.4	5034.4	3668.5
52.5°	4055.7	4068.7	4163.2	4204.3	4145.6	3985.6	3928.4	4516.8	4831.6	5409.4	3917.7
55°	3971.9	3981.0	4186.8	4360.6	4575.5	4415.5	4190.6	4777.5	5077.1	5702.1	4103.0
57.5°	3624.3	3673.8	3953.6	4247.8	4699.8	4840.0	4615.9	5061.0	5313.3	5905.6	4285.1
60°	2911.6	2909.3	3310.3	3838.5	4457.4	4956.6	5216.5	5444.4	5550.4	6061.8	4529.0
62.5°	1609.0	1623.5	2157.0	2852.9	3783.6	4654.8	5667.0	6106.8	6090.8	6334.7	4910.9
65°	801.1	830.0	1119.7	1634.2	2517.6	3846.9	5744.7	7117.5	7071.7	6977.2	5699.8
67.5°	508.4	519.8	679.9	949.7	1399.4	2472.6	5260.7	7871.3	7977.2	7739.4	6482.6
70°	329.3	348.3	472.6	649.4	844.5	1274.4	3853.7	7382.7	7625.9	7655.6	5994.7
72.5°	179.1	192.8	301.8	463.4	609.8	637.2	2164.7	5540.5	5931.5	6494.0	4689.9
75°	102.1	112.0	165.4	314.8	447.4	388.0	959.6	3708.9	3958.1	4641.1	3360.6
77.5°	61.7	70.1	93.0	153.2	280.5	259.1	362.8	2257.7	2416.2	2769.1	1763.7
80°	28.2	33.5	58.7	84.6	153.2	122.7	138.7	1052.6	1086.9	1136.4	583.8
82.5°	13.0	15.2	26.7	50.3	86.9	70.9	53.4	243.1	342.2	323.9	148.6
85°	1.5	1.5	9.9	20.6	24.4	18.3	22.1	54.9	69.4	97.6	42.7
87.5°	0.0	0.0	0.8	0.8	1.5	2.3	4.6	6.9	9.9	16.0	10.7
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: P632715  
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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	926.8	926.8	926.8	926.8	926.8	926.8	926.8	926.8	926.8	926.8	926.8
2.5°	941.3	920.0	900.9	872.7	853.7	832.3	817.8	800.3	793.5	788.1	780.5
5°	962.7	928.4	881.9	830.0	787.4	747.0	709.6	685.2	663.9	660.8	650.2
7.5°	997.7	946.7	868.2	783.5	711.1	644.1	591.5	548.8	527.4	520.6	508.4
10°	1044.2	974.1	847.6	718.0	613.6	533.5	474.1	426.1	392.5	380.3	371.2
12.5°	1096.1	999.3	814.8	637.2	518.3	426.8	351.4	300.3	279.0	271.3	264.5
15°	1155.5	1022.9	763.0	556.4	425.3	314.0	260.7	238.6	229.4	227.1	224.9
17.5°	1212.7	1038.1	701.2	472.6	327.0	243.9	218.8	210.4	208.1	205.8	204.3
20°	1277.5	1048.8	628.8	393.3	253.8	206.6	194.4	188.3	183.7	179.1	178.4
22.5°	1343.8	1048.8	550.3	315.6	212.7	185.2	171.5	160.1	151.7	147.1	145.6
25°	1407.0	1034.3	472.6	252.3	187.5	164.6	147.1	134.1	122.7	117.4	115.9
27.5°	1452.0	997.0	404.7	213.4	170.0	146.3	125.0	110.5	101.4	96.0	95.3
30°	1480.2	941.3	342.2	190.6	154.7	127.3	105.9	93.8	86.9	83.1	81.6
32.5°	1501.5	872.7	286.6	174.5	140.2	110.5	92.2	82.3	76.2	73.2	72.4
35°	1544.2	807.9	245.4	160.1	125.0	96.8	80.8	73.2	68.6	64.8	64.0
37.5°	1603.7	753.8	212.7	147.1	110.5	86.1	73.2	66.3	62.5	58.7	57.9
40°	1691.3	719.5	188.3	134.1	97.6	77.7	67.1	61.0	55.6	51.8	51.1
42.5°	1826.2	703.5	172.3	121.2	86.1	70.1	61.7	54.1	48.8	45.0	44.2
45°	1987.1	711.9	158.5	108.2	78.5	64.8	54.9	47.3	41.9	38.1	37.3
47.5°	2159.3	741.6	147.1	96.0	70.9	59.5	48.8	40.4	35.8	32.0	31.3
50°	2339.2	790.4	137.2	84.6	64.8	53.4	41.9	35.1	30.5	27.4	26.7
52.5°	2495.5	856.7	127.3	76.2	59.5	47.3	36.6	30.5	25.9	22.9	22.1
55°	2644.9	919.2	119.7	68.6	53.4	41.2	32.0	25.9	22.1	19.1	18.3
57.5°	2807.2	985.5	110.5	61.7	48.0	36.6	28.2	22.1	19.1	16.0	15.2
60°	3043.5	1083.9	96.8	56.4	41.9	32.0	24.4	19.8	16.8	13.0	12.2
62.5°	3384.2	1263.0	81.6	48.8	35.8	27.4	20.6	16.8	13.7	10.7	9.1
65°	4021.4	1567.9	67.1	40.4	29.0	22.9	17.5	13.7	10.7	7.6	6.9
67.5°	4480.2	1647.1	54.1	32.8	23.6	17.5	14.5	10.7	7.6	5.3	4.6
70°	3917.0	1182.9	41.9	26.7	19.8	13.7	11.4	8.4	5.3	3.8	3.0
72.5°	2951.3	772.9	31.3	20.6	15.2	11.4	8.4	6.9	4.6	3.0	2.3
75°	2080.1	446.7	22.9	15.2	10.7	8.4	6.9	5.3	3.8	2.3	2.3
77.5°	1066.3	184.5	16.0	10.7	7.6	5.3	4.6	3.0	3.0	2.3	1.5
80°	323.9	61.0	9.1	6.9	5.3	3.8	2.3	2.3	2.3	1.5	0.8
82.5°	73.9	19.8	5.3	5.3	3.8	3.0	2.3	0.8	0.8	0.0	0.0
85°	19.1	6.1	4.6	3.8	3.8	3.0	1.5	0.8	0.0	0.0	0.0
87.5°	6.9	3.8	3.8	3.8	3.0	2.3	1.5	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)