

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: P636292

Luminaire Tested: GWS-SA3F-740-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-740-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16390.4 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

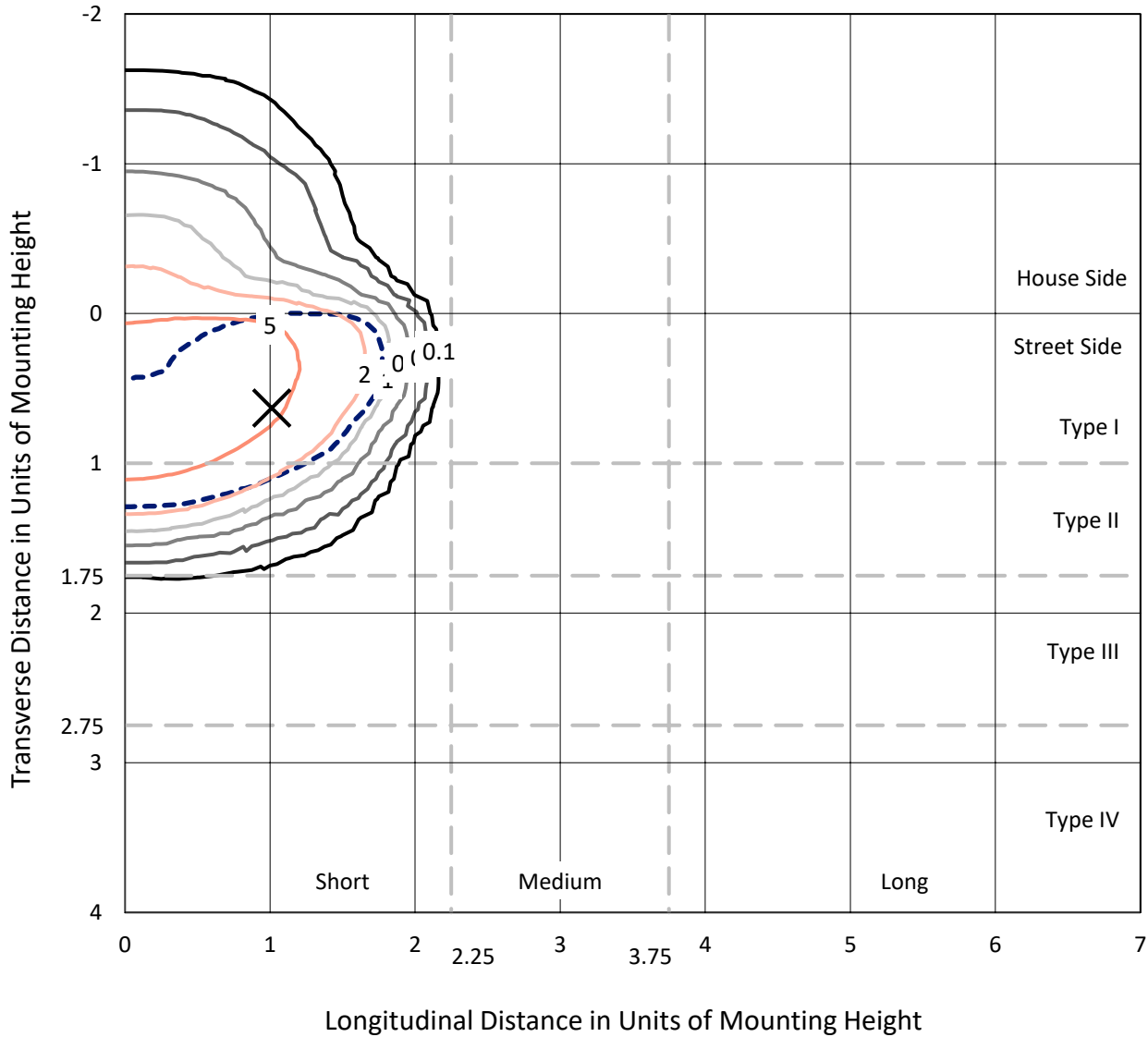
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

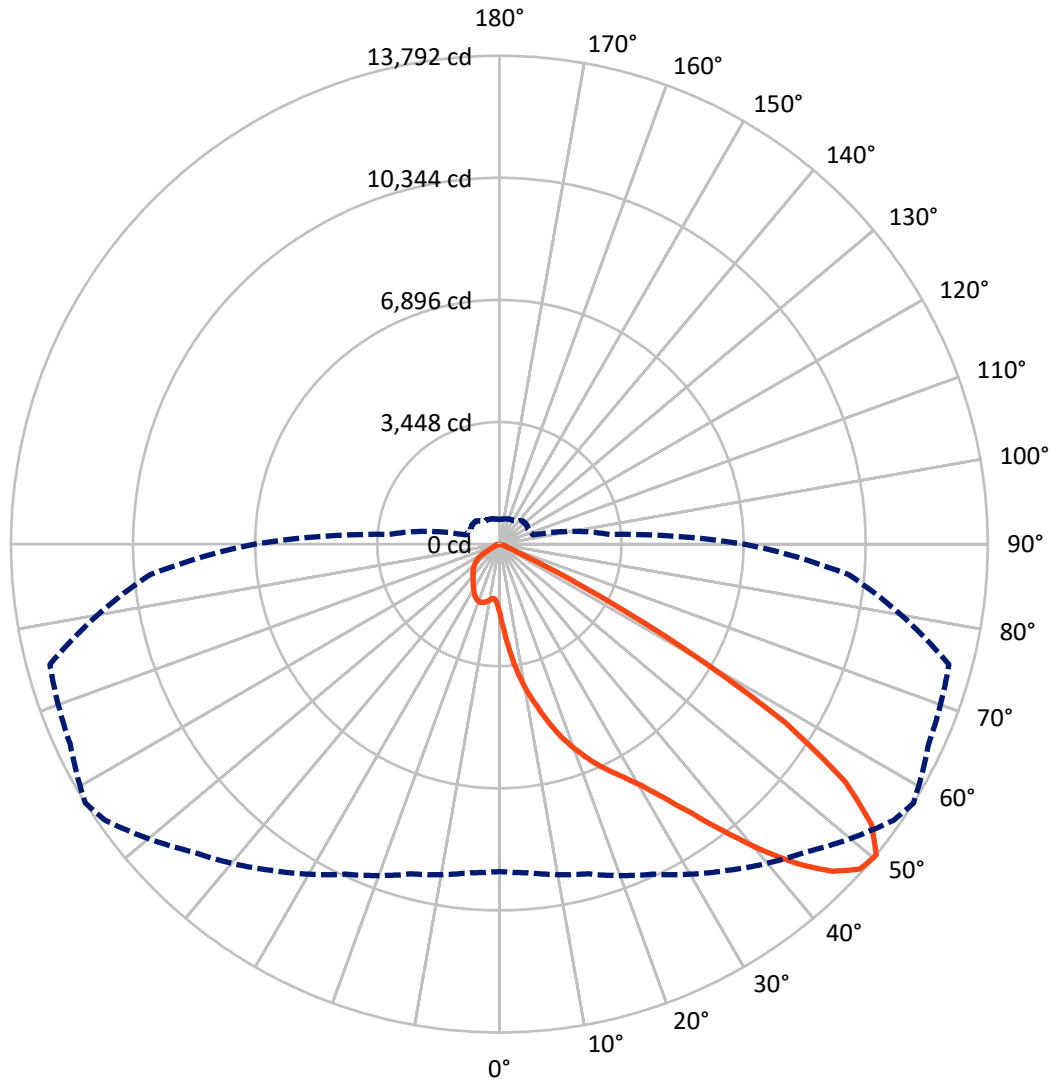
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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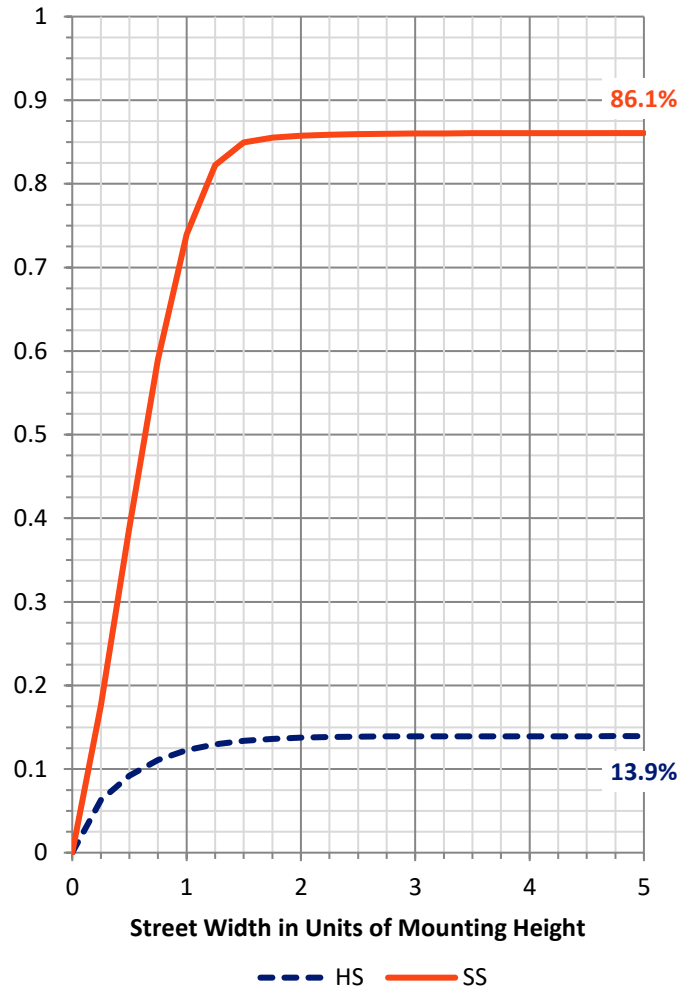
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2295.7	0.0	2295.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	14094.7	0.0	14094.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	16390.4	0.0	16390.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.5	1.5
10°-20°	960.2	5.9
20°-30°	1942.9	11.9
30°-40°	3437.2	21.0
40°-50°	5010.7	30.6
50°-60°	4016.2	24.5
60°-70°	723.6	4.4
70°-80°	57.0	0.3
80°-90°	0.0	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°	16390.4	100.0
0°-180°	16390.4	100.0

Coefficient of Utilization



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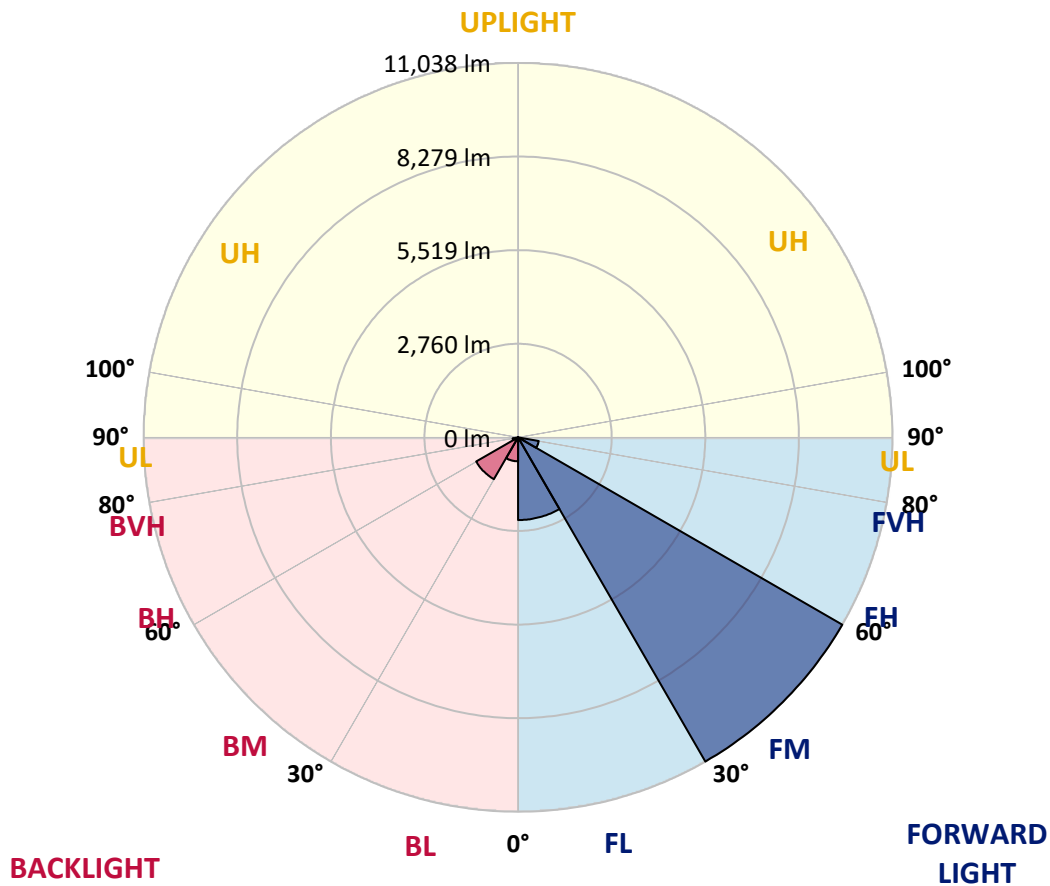
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2438.8	14.9			
FM (30°-60°)	11038.4	67.3			
FH (60°-80°)	617.4	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	706.8	4.3	B2/1000		
BM (30°-60°)	1425.7	8.7	B2/2500		
BH (60°-80°)	163.2	1.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8
2.5°	2897.3	2851.7	2825.4	2804.4	2711.5	2564.3	2467.9	2417.0	2332.9	2190.9	2068.2
5°	3780.6	3747.3	3686.0	3643.9	3524.8	3316.2	3100.6	3014.7	2823.7	2502.9	2215.5
7.5°	4366.1	4341.5	4318.7	4262.7	4150.5	3961.2	3722.8	3633.4	3339.0	2883.2	2411.8
10°	4816.5	4797.2	4770.9	4769.2	4681.6	4511.5	4278.4	4185.5	3866.5	3296.9	2643.1
12.5°	5212.6	5196.9	5191.6	5240.7	5184.6	5058.4	4806.0	4690.3	4352.0	3719.3	2899.0
15°	5484.3	5480.8	5503.6	5600.0	5631.5	5573.7	5361.6	5237.2	4848.1	4143.5	3181.2
17.5°	5608.8	5619.3	5663.1	5829.6	5969.8	6018.9	5855.9	5750.7	5340.6	4572.9	3482.7
20°	5820.8	5817.3	5843.6	6001.4	6173.1	6348.4	6299.3	6209.9	5838.4	5026.8	3817.5
22.5°	6418.5	6367.7	6311.6	6336.1	6397.5	6602.6	6693.7	6648.1	6351.9	5493.1	4162.7
25°	7336.9	7284.4	7103.8	6928.6	6812.9	6905.8	7030.2	7053.0	6862.0	5971.6	4523.8
27.5°	8311.5	8264.1	8060.8	7797.9	7466.7	7305.4	7398.3	7443.9	7363.2	6541.2	4907.7
30°	9224.6	9161.5	8938.9	8612.9	8229.1	7982.0	7876.8	7908.3	7955.7	7216.0	5358.1
32.5°	10016.9	9969.6	9703.1	9359.6	8989.8	8732.1	8486.7	8539.3	8655.0	8041.5	5934.8
35°	10688.2	10663.6	10381.5	10039.7	9648.8	9517.4	9307.0	9317.5	9433.2	9038.9	6637.6
37.5°	11271.8	11229.8	10973.9	10656.6	10346.4	10325.4	10267.5	10272.8	10332.4	10200.9	7445.6
40°	11639.9	11601.4	11419.1	11222.8	11001.9	11005.4	11305.1	11327.9	11259.6	11341.9	8299.2
42.5°	11778.4	11750.3	11652.2	11653.9	11631.2	11734.6	12297.2	12339.3	12093.9	12237.6	9028.3
45°	11538.3	11526.0	11533.0	11785.4	12058.8	12377.8	13108.7	13182.3	12835.3	12831.8	9598.0
47.5°	10763.5	10739.0	10944.1	11373.5	12006.2	12626.7	13599.5	13713.4	13354.1	13171.8	9955.5
50°	9245.7	9315.8	9640.0	10285.0	11247.3	12284.9	13594.2	13792.3	13373.4	13142.0	9895.9
52.5°	6697.2	6683.2	7393.0	8279.9	9450.7	11191.2	12872.1	13161.3	12905.4	12849.3	9762.7
55°	3643.9	3771.9	4250.4	5424.7	6886.5	9121.2	11222.8	11853.7	12150.0	12742.4	10002.9
57.5°	1339.1	1395.2	1694.9	2525.7	3645.7	5671.9	8572.6	9524.4	10439.3	12444.4	9962.5
60°	539.8	550.4	669.5	928.9	1531.9	2886.8	5142.5	5987.3	6849.7	9526.1	7645.4
62.5°	392.6	406.6	454.0	543.3	774.7	1262.0	2217.2	2578.3	2818.4	4718.4	3766.6
65°	317.2	327.8	366.3	406.6	511.8	678.3	715.1	688.8	685.3	1219.9	864.1
67.5°	262.9	273.4	301.5	329.5	368.1	338.3	245.4	257.7	210.3	208.6	170.0
70°	192.8	205.1	233.1	262.9	220.8	91.1	142.0	210.3	159.5	133.2	129.7
72.5°	145.5	154.2	180.5	171.8	64.9	35.1	94.6	152.5	122.7	98.2	96.4
75°	108.7	113.9	91.1	28.0	7.0	8.8	35.1	63.1	68.4	56.1	56.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	5.3	7.0	8.8	10.5
80°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8
2.5°	1998.1	1924.5	1819.3	1731.7	1665.1	1600.2	1551.2	1502.1	1500.3	1475.8	1470.5
5°	2082.2	1949.0	1756.2	1617.8	1533.6	1482.8	1447.8	1430.2	1421.5	1412.7	1409.2
7.5°	2203.2	2012.1	1745.7	1598.5	1528.4	1495.1	1470.5	1460.0	1454.8	1447.8	1446.0
10°	2352.2	2103.3	1784.3	1635.3	1574.0	1542.4	1516.1	1500.3	1491.6	1479.3	1475.8
12.5°	2530.9	2215.5	1845.6	1696.6	1631.8	1589.7	1554.7	1531.9	1519.6	1503.8	1500.3
15°	2723.8	2336.4	1914.0	1752.7	1675.6	1621.3	1577.5	1542.4	1519.6	1500.3	1495.1
17.5°	2923.6	2459.1	1975.3	1791.3	1696.6	1631.8	1568.7	1521.4	1493.3	1468.8	1461.8
20°	3147.9	2585.3	2015.6	1798.3	1689.6	1603.8	1530.1	1470.5	1442.5	1409.2	1402.2
22.5°	3382.8	2702.7	2033.2	1782.5	1651.1	1551.2	1472.3	1411.0	1370.6	1335.6	1325.1
25°	3610.6	2807.9	2024.4	1738.7	1593.2	1477.6	1396.9	1333.8	1290.0	1255.0	1246.2
27.5°	3852.5	2895.5	1992.9	1673.9	1514.4	1396.9	1319.8	1265.5	1225.2	1186.6	1177.8
30°	4124.2	2976.1	1942.0	1595.0	1421.5	1314.6	1255.0	1218.2	1174.3	1134.0	1121.8
32.5°	4451.9	3048.0	1868.4	1500.3	1339.1	1242.7	1209.4	1181.3	1130.5	1088.4	1079.7
35°	4827.0	3107.6	1775.5	1402.2	1258.5	1197.1	1190.1	1153.3	1086.7	1037.6	1027.1
37.5°	5261.7	3165.4	1665.1	1305.8	1198.9	1176.1	1177.8	1114.7	1034.1	974.5	967.5
40°	5729.7	3223.3	1542.4	1221.7	1144.5	1163.8	1148.0	1058.7	927.2	869.4	862.3
42.5°	6217.0	3286.4	1418.0	1142.8	1099.0	1116.5	1093.7	946.5	851.8	822.0	818.5
45°	6656.9	3361.7	1283.0	1063.9	1053.4	1048.1	1009.6	857.1	816.8	795.7	794.0
47.5°	6974.1	3349.5	1139.3	988.5	1004.3	986.8	869.4	815.0	781.7	753.7	746.7
50°	6916.3	3135.6	990.3	904.4	941.2	925.4	781.7	765.9	736.1	706.4	695.8
52.5°	6769.1	2844.7	860.6	815.0	872.9	836.1	722.1	706.4	680.1	641.5	629.2
55°	6847.9	2571.3	758.9	743.2	802.8	692.3	655.5	631.0	602.9	560.9	555.6
57.5°	6593.8	2098.0	610.0	620.5	709.9	590.7	574.9	536.3	489.0	461.0	457.5
60°	4564.1	1127.0	382.1	394.4	513.6	496.0	515.3	480.2	422.4	396.1	390.9
62.5°	2096.3	452.2	208.6	199.8	269.9	336.5	441.7	438.2	366.3	324.3	320.8
65°	508.3	206.8	149.0	140.2	152.5	201.6	287.4	345.3	296.2	247.1	241.9
67.5°	164.8	168.3	136.7	127.9	135.0	150.7	171.8	191.0	189.3	173.5	170.0
70°	131.5	152.5	126.2	115.7	115.7	120.9	115.7	92.9	80.6	87.6	91.1
72.5°	98.2	115.7	99.9	89.4	85.9	84.1	71.9	52.6	36.8	33.3	31.5
75°	57.8	64.9	61.3	52.6	49.1	43.8	35.1	22.8	12.3	8.8	5.3
77.5°	10.5	12.3	14.0	10.5	8.8	7.0	5.3	1.8	0.0	0.0	0.0
80°	0.0	1.8	1.8	1.8	0.0	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)