

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: P636075

Luminaire Tested: GWS-SA3F-722-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-722-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18364.6 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

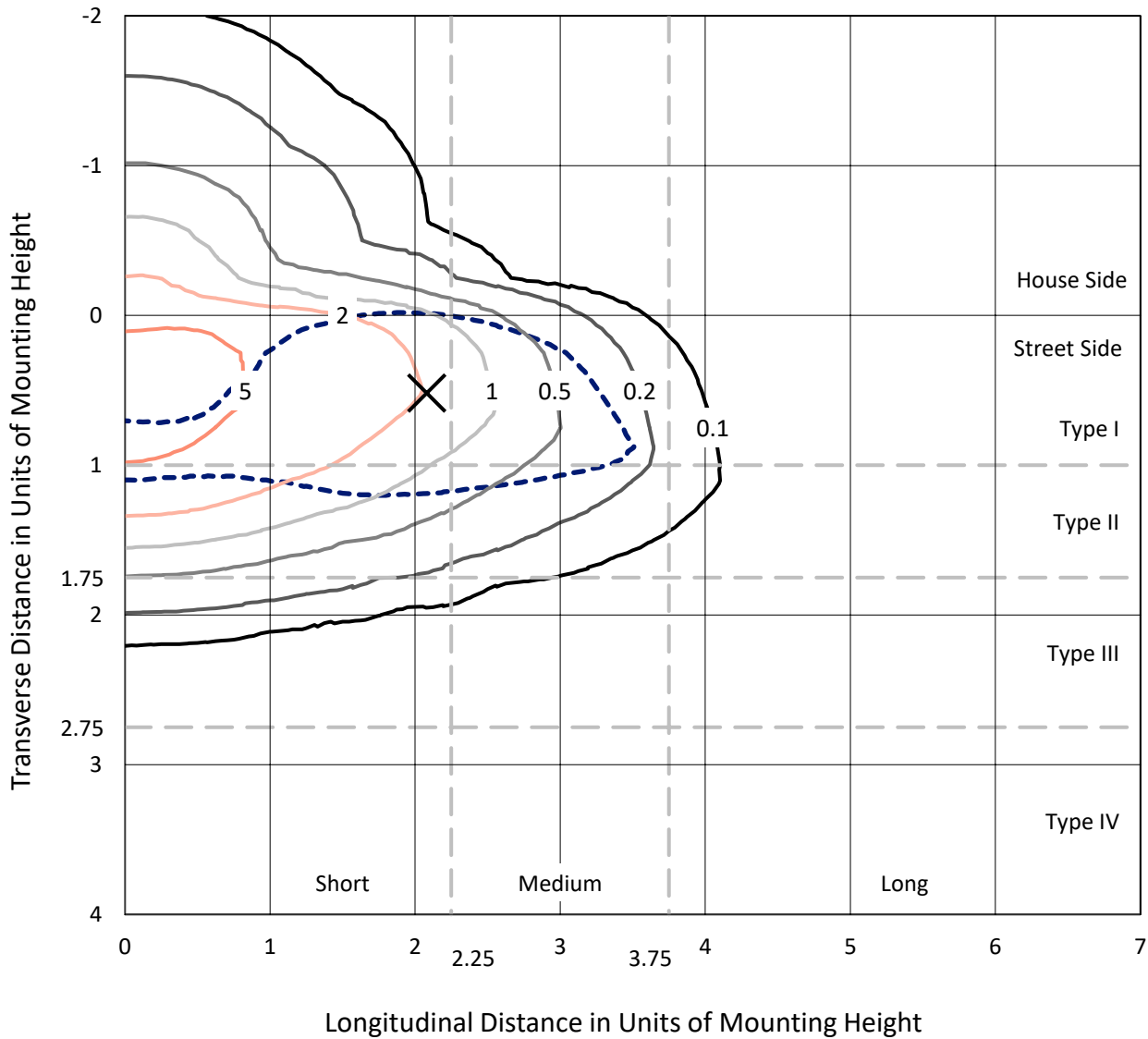
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

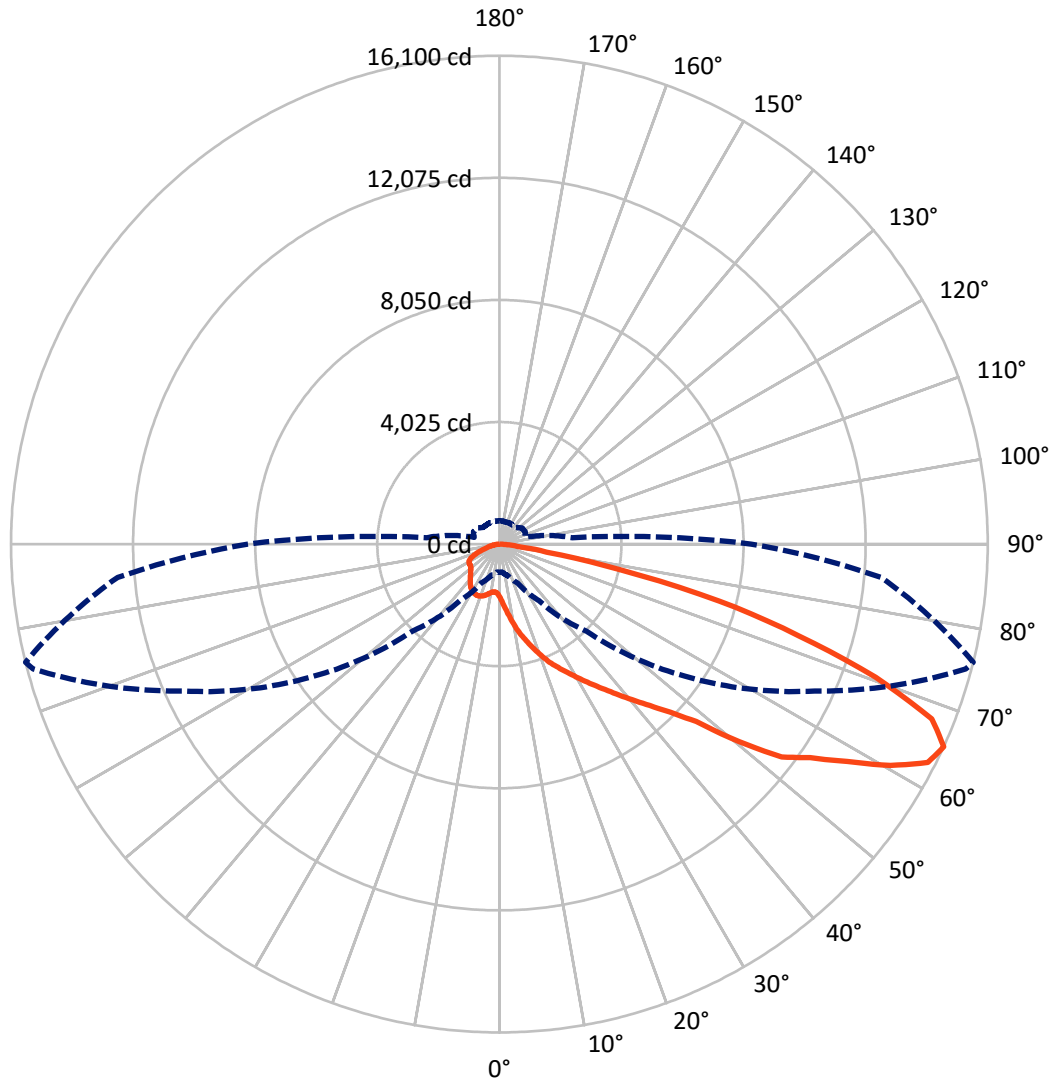
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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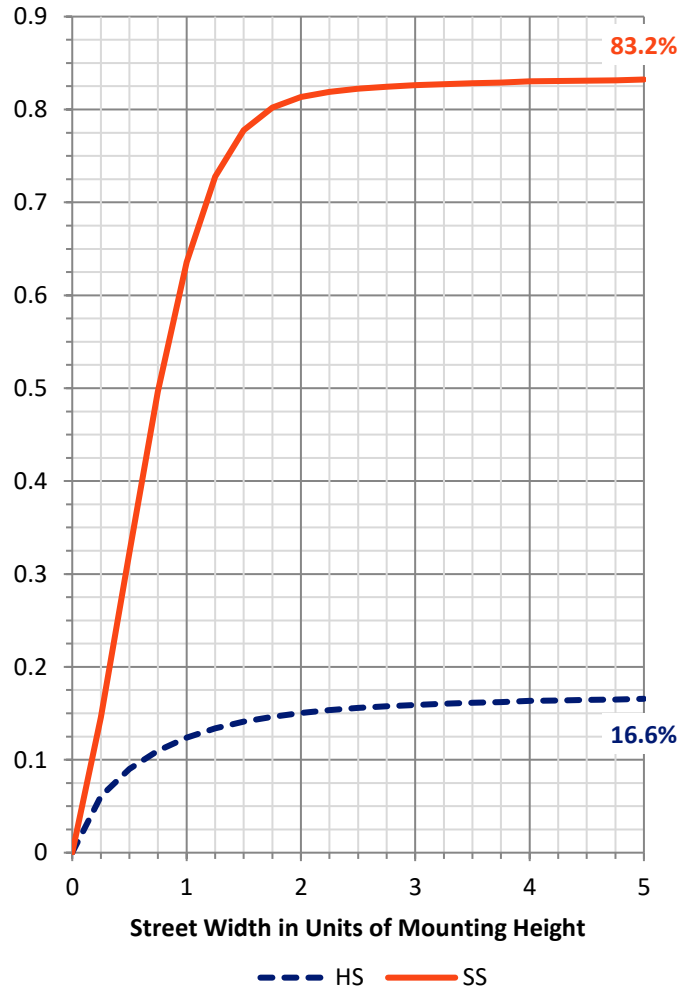
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3069.7	0.0	3069.7
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	15294.9	0.0	15294.9
	% Fixture	83.3	0.0	83.3
Total	Lumens	18364.6	0.0	18364.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.6	1.1
10°-20°	787.0	4.3
20°-30°	1533.7	8.4
30°-40°	2565.0	14.0
40°-50°	3672.5	20.0
50°-60°	4347.8	23.7
60°-70°	3615.2	19.7
70°-80°	1479.4	8.1
80°-90°	157.5	0.9
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°	18364.6	100.0
0°-180°	18364.6	100.0

Coefficient of Utilization



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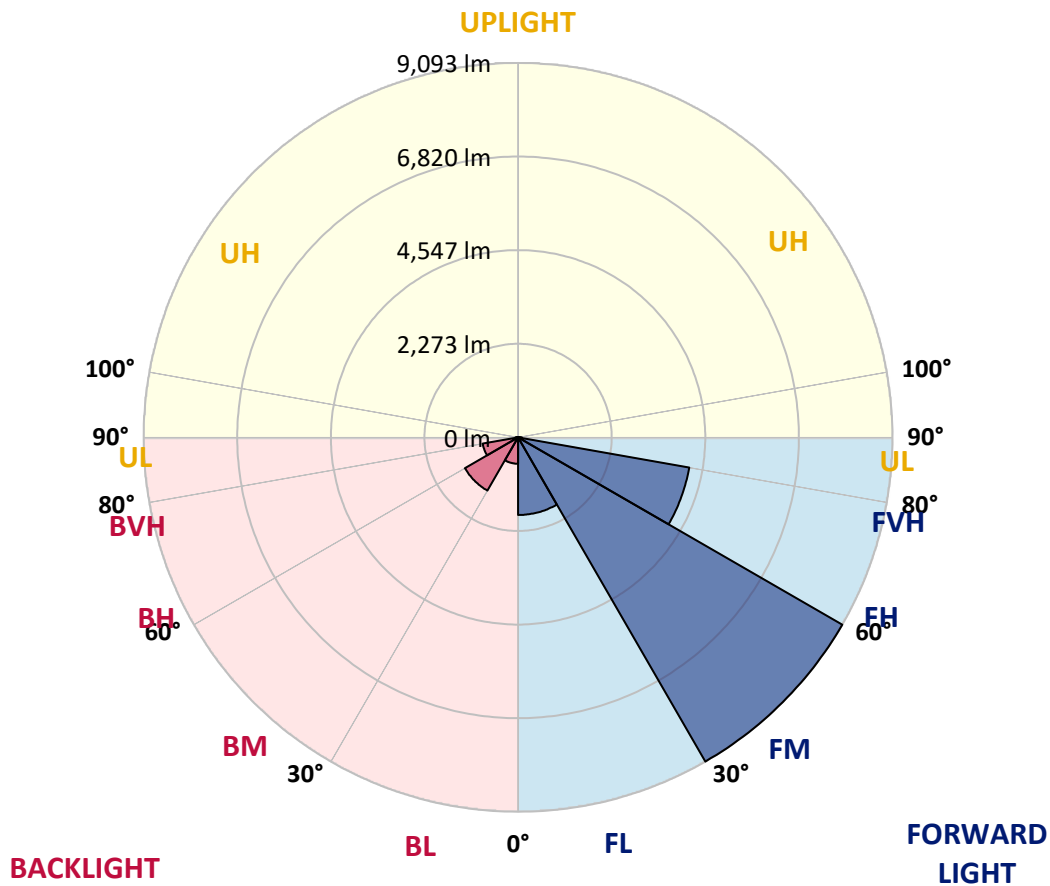
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1885.1	10.3			
FM (30°-60°)	9093.5	49.5			
FH (60°-80°)	4222.5	23.0			G2/5000
FVH (80°-90°)	93.9	0.5			G1/100
BL (0°-30°)	642.2	3.5	B2/1000		
BM (30°-60°)	1491.8	8.1	B2/2500		
BH (60°-80°)	872.1	4.7	B2/1000		G2/1000
BVH (80°-90°)	63.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1
2.5°	2437.5	2446.6	2416.9	2406.5	2336.8	2242.6	2163.8	2045.0	1935.3	1918.5	1820.4
5°	3096.0	3057.2	3023.7	3001.7	2904.9	2797.7	2631.2	2407.8	2174.1	2145.7	1934.0
7.5°	3487.2	3480.7	3439.4	3426.5	3351.6	3244.4	3072.7	2795.1	2455.6	2409.1	2087.6
10°	3800.9	3797.0	3776.4	3788.0	3719.5	3615.0	3448.4	3161.8	2764.2	2717.7	2259.4
12.5°	4074.6	4081.0	4077.2	4119.8	4084.9	4003.6	3830.6	3515.6	3072.7	3022.4	2468.5
15°	4274.7	4279.9	4299.2	4392.2	4411.6	4394.8	4219.2	3862.9	3377.4	3305.1	2684.1
17.5°	4331.5	4341.8	4388.3	4538.1	4642.7	4712.4	4582.0	4216.6	3676.9	3598.2	2903.6
20°	4407.7	4419.3	4465.8	4622.0	4775.6	4934.4	4911.2	4575.5	3979.1	3914.5	3125.7
22.5°	4760.1	4751.1	4730.4	4805.3	4915.1	5112.6	5170.7	4920.2	4291.5	4229.5	3371.0
25°	5439.2	5422.5	5290.8	5222.3	5186.2	5306.3	5409.5	5234.0	4596.2	4503.2	3599.5
27.5°	6188.1	6179.0	6011.2	5848.5	5626.4	5574.8	5635.5	5507.7	4891.8	4797.6	3798.3
30°	6896.9	6869.7	6694.2	6490.2	6193.2	5971.2	5882.1	5776.2	5215.9	5117.8	4030.7
32.5°	7530.8	7495.9	7289.3	7063.4	6752.3	6490.2	6224.2	6061.5	5582.5	5468.9	4268.2
35°	8051.1	8016.2	7804.5	7564.3	7222.2	7028.5	6664.5	6371.4	5955.7	5840.8	4548.4
37.5°	8453.9	8421.6	8200.8	7964.6	7666.3	7512.7	7196.4	6720.0	6385.6	6265.5	4845.4
40°	8679.8	8656.6	8479.7	8292.5	8042.0	7909.0	7767.0	7160.2	6867.2	6747.1	5195.2
42.5°	8748.2	8732.7	8608.8	8512.0	8342.8	8242.1	8323.5	7677.9	7381.0	7276.4	5589.0
45°	8576.5	8576.5	8540.4	8589.4	8597.2	8595.9	8881.2	8262.8	8012.3	7897.4	6144.2
47.5°	8137.6	8166.0	8218.9	8460.3	8714.7	8927.7	9533.2	9042.6	8824.4	8730.2	6930.4
50°	7334.5	7412.0	7592.7	8064.0	8604.9	9147.2	10150.3	10195.5	10403.4	10236.8	8087.2
52.5°	6158.4	6146.7	6607.7	7279.0	8104.0	9156.2	10489.9	11212.9	11771.9	11657.0	8947.1
55°	4894.4	4875.0	5305.0	6230.7	7335.8	8810.2	10693.9	11678.9	12531.0	12427.8	9720.4
57.5°	3748.0	3723.4	4105.6	4940.9	6251.3	8075.6	10655.1	12234.1	13575.5	13522.6	10771.3
60°	2579.5	2549.8	2907.5	3638.2	4968.0	6952.4	10226.5	12519.4	14798.1	14816.2	11895.8
62.5°	1549.3	1532.5	1792.0	2358.8	3573.7	5560.6	9223.3	12346.4	15771.6	15852.9	12618.8
65°	934.7	923.1	1075.5	1407.3	2267.1	4057.8	7676.7	11462.0	15912.3	16099.5	12635.6
67.5°	680.4	681.7	725.6	857.3	1322.0	2620.9	5760.7	9876.6	15179.0	15372.7	11839.0
70°	591.3	593.9	617.1	646.8	799.2	1500.2	3745.4	7796.7	13011.3	13161.1	9929.6
72.5°	525.5	525.5	541.0	556.4	624.9	914.1	2006.3	5449.6	10269.1	10309.1	7578.5
75°	462.2	458.3	466.1	473.8	542.2	639.1	976.0	3797.0	7585.0	7492.0	4898.3
77.5°	368.0	364.1	365.4	373.1	435.1	457.0	494.5	2371.7	4274.7	4034.6	2163.8
80°	262.1	259.5	273.7	293.1	321.5	280.2	309.9	1147.8	1695.2	1577.7	839.2
82.5°	156.2	161.4	183.3	198.8	222.1	175.6	200.1	383.4	600.3	584.9	340.8
85°	21.9	23.2	65.8	76.2	95.5	68.4	105.9	173.0	240.1	256.9	120.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.0	31.0	68.4	69.7	29.7
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°	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1
2.5°	1770.0	1709.4	1622.9	1550.6	1489.9	1440.8	1399.5	1368.5	1359.5	1346.6	1346.6
5°	1834.6	1724.9	1569.9	1460.2	1396.9	1359.5	1333.7	1320.8	1314.3	1306.6	1302.7
7.5°	1923.7	1770.0	1560.9	1449.9	1400.8	1377.6	1360.8	1353.0	1347.9	1340.1	1340.1
10°	2046.3	1837.2	1589.3	1486.0	1447.3	1424.0	1404.7	1391.8	1380.1	1368.5	1365.9
12.5°	2179.3	1925.0	1640.9	1535.1	1493.8	1465.4	1438.2	1418.9	1404.7	1390.5	1386.6
15°	2326.5	2015.3	1696.5	1582.8	1531.2	1492.5	1460.2	1430.5	1411.1	1390.5	1387.9
17.5°	2471.1	2107.0	1742.9	1615.1	1549.3	1501.5	1455.0	1416.3	1391.8	1368.5	1362.1
20°	2644.1	2198.7	1775.2	1624.2	1545.4	1482.1	1426.6	1377.6	1350.5	1323.3	1319.5
22.5°	2802.9	2283.9	1790.7	1611.2	1515.7	1440.8	1376.3	1323.3	1293.6	1266.5	1261.4
25°	2956.5	2358.8	1784.2	1580.3	1470.5	1384.0	1316.9	1263.9	1235.5	1207.1	1199.4
27.5°	3105.0	2409.1	1758.4	1532.5	1413.7	1320.8	1256.2	1208.4	1183.9	1159.4	1149.0
30°	3250.9	2455.6	1718.4	1470.5	1341.4	1254.9	1202.0	1168.4	1143.9	1118.1	1110.3
32.5°	3398.1	2489.2	1657.7	1398.2	1267.8	1196.8	1164.5	1140.0	1114.2	1088.4	1080.6
35°	3546.5	2503.4	1584.1	1315.6	1205.9	1159.4	1147.8	1119.4	1084.5	1053.5	1043.2
37.5°	3723.4	2516.3	1492.5	1234.3	1151.6	1141.3	1138.7	1096.1	1054.8	1012.2	1000.6
40°	3936.4	2533.1	1398.2	1160.7	1107.7	1134.8	1124.5	1066.4	983.8	942.5	929.6
42.5°	4197.2	2564.0	1300.1	1093.5	1075.5	1110.3	1098.7	994.1	938.6	915.4	908.9
45°	4580.7	2677.7	1202.0	1040.6	1050.9	1075.5	1057.4	951.5	929.6	914.1	906.3
47.5°	5263.7	2852.0	1116.8	1000.6	1031.6	1044.5	974.8	939.9	923.1	902.5	893.4
50°	5973.7	2928.1	1048.3	976.0	1009.6	1016.1	929.6	924.4	912.8	890.8	881.8
52.5°	6454.0	2917.8	1007.0	967.0	991.5	967.0	908.9	907.6	899.9	874.0	863.7
55°	6996.3	2935.9	989.0	969.6	983.8	884.4	883.1	887.0	883.1	854.7	849.5
57.5°	7728.3	2991.4	979.9	978.6	978.6	844.4	858.6	863.7	856.0	843.1	839.2
60°	8431.9	2995.3	963.1	989.0	974.8	819.8	830.2	835.3	826.3	823.7	822.4
62.5°	8696.6	2809.3	925.7	981.2	959.3	792.7	800.5	803.0	794.0	800.5	799.2
65°	8302.8	2414.3	863.7	943.8	911.5	768.2	763.0	769.5	754.0	770.8	772.1
67.5°	7372.0	1918.5	769.5	872.8	844.4	741.1	730.7	730.7	704.9	730.7	729.4
70°	5944.0	1355.6	631.3	759.1	770.8	708.8	703.6	673.9	632.6	671.4	667.5
72.5°	4505.8	973.5	497.1	600.3	663.6	663.6	664.9	614.5	566.8	584.9	569.4
75°	2854.5	685.6	397.6	459.6	520.3	582.3	612.0	519.0	476.4	468.7	460.9
77.5°	1285.9	450.6	309.9	352.5	369.2	459.6	559.0	446.7	388.6	371.8	366.7
80°	538.4	280.2	220.8	249.2	227.2	386.0	493.2	347.3	285.3	262.1	245.3
82.5°	236.3	166.5	140.7	134.3	142.0	286.6	368.0	231.1	178.2	241.4	244.0
85°	99.4	87.8	72.3	65.8	58.1	109.7	173.0	90.4	111.0	63.3	51.6
87.5°	23.2	25.8	19.4	12.9	7.7	1.3	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)