

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: P629805

Luminaire Tested: GWS-SA1C-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1C-735-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4172.3 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

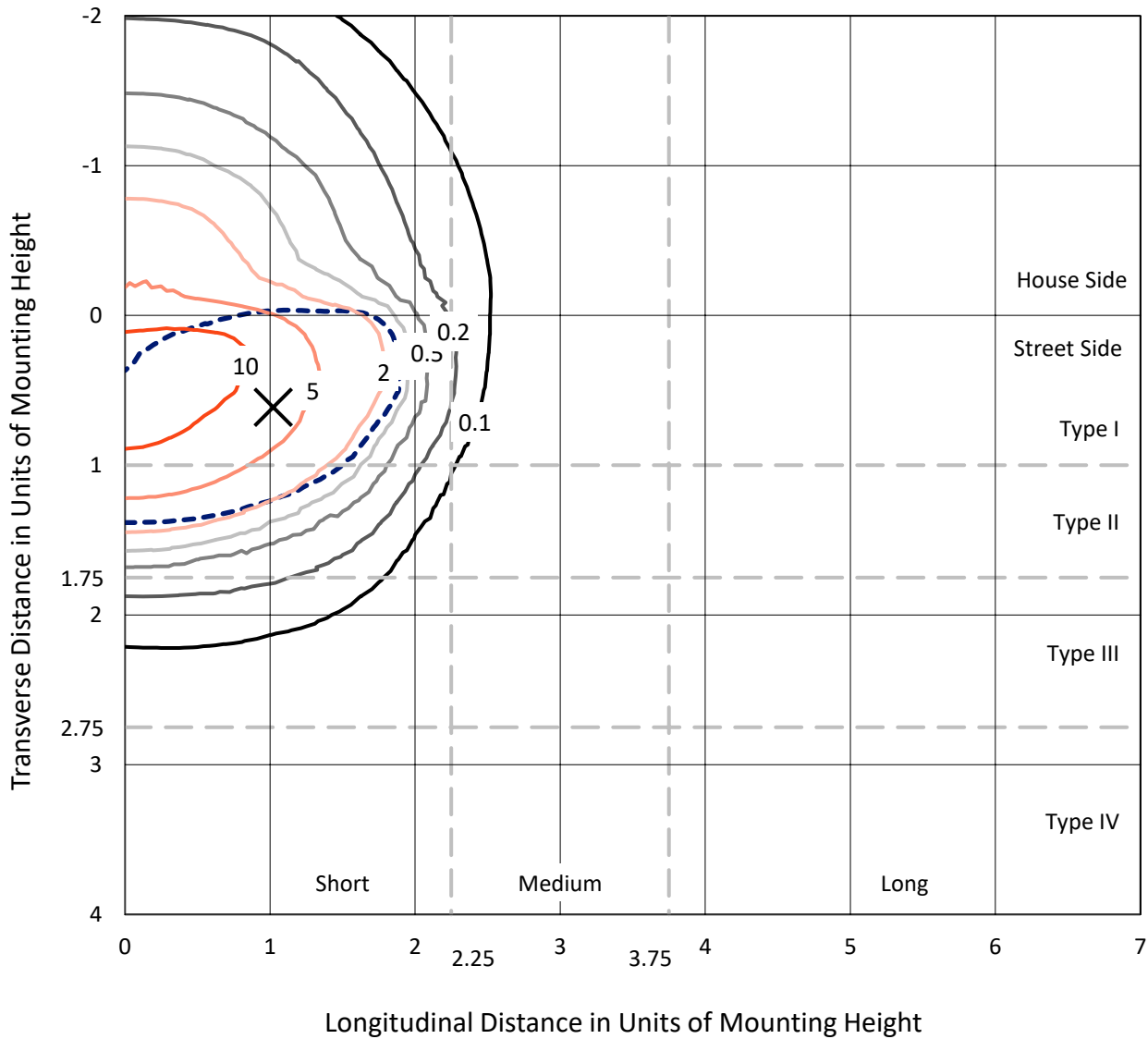
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

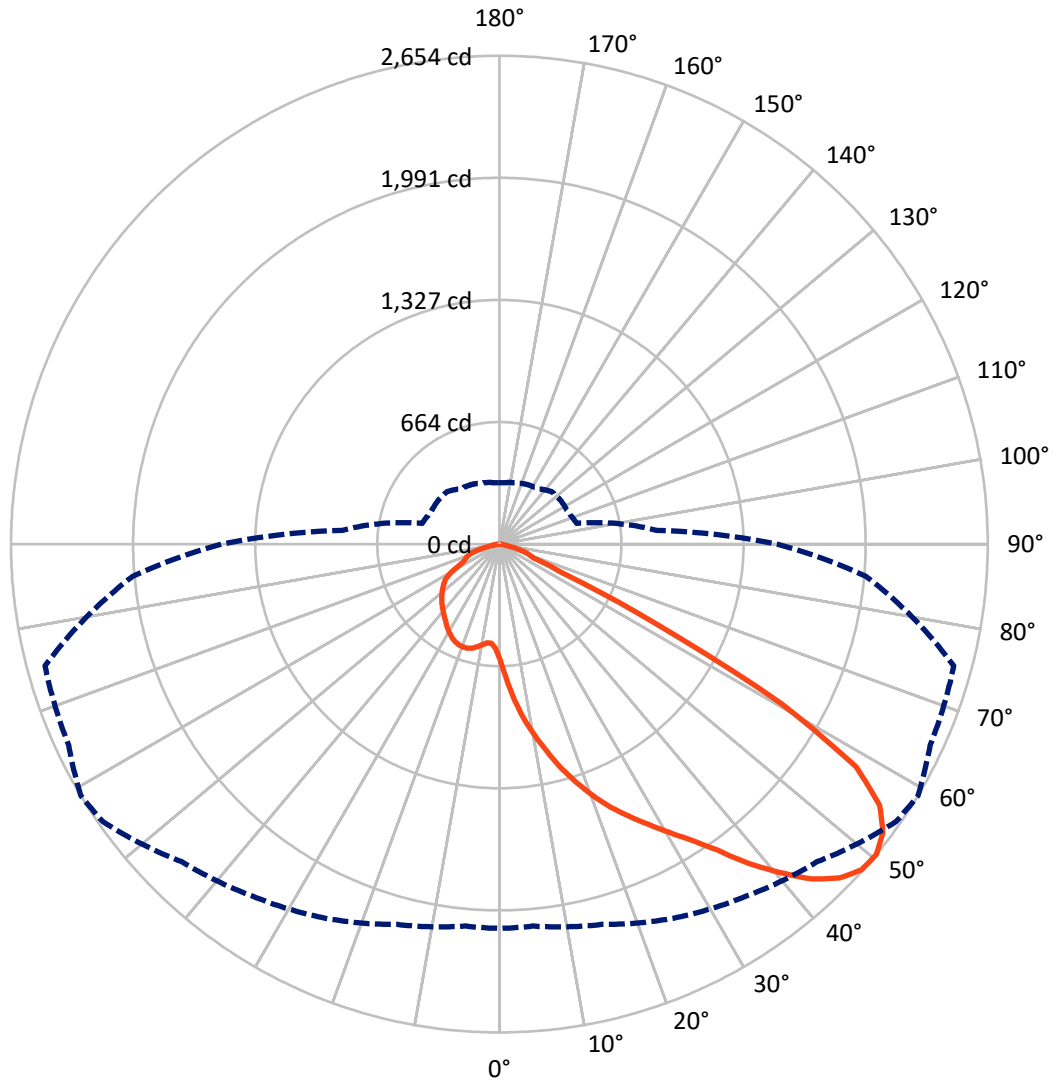
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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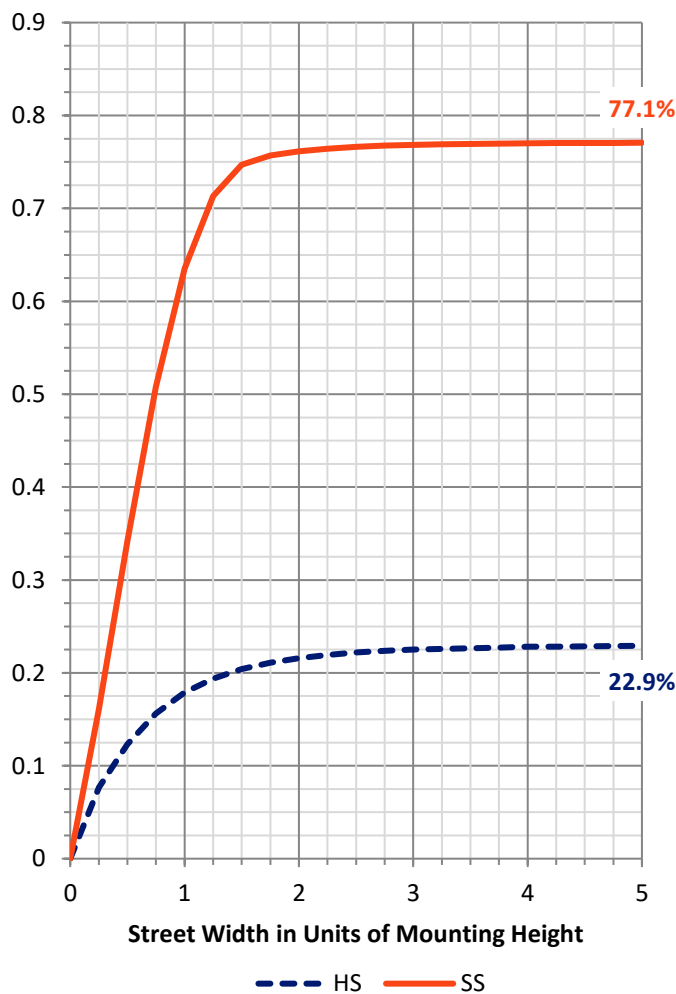
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	959.7	0.0	959.7
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	3212.6	0.0	3212.6
	% Fixture	77.0	0.0	77.0
Total	Lumens	4172.3	0.0	4172.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.9	1.7
10°-20°	257.4	6.2
20°-30°	487.5	11.7
30°-40°	808.4	19.4
40°-50°	1104.3	26.5
50°-60°	1002.4	24.0
60°-70°	333.8	8.0
70°-80°	97.4	2.3
80°-90°	10.2	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°	4172.3	100.0
0°-180°	4172.3	100.0

Coefficient of Utilization



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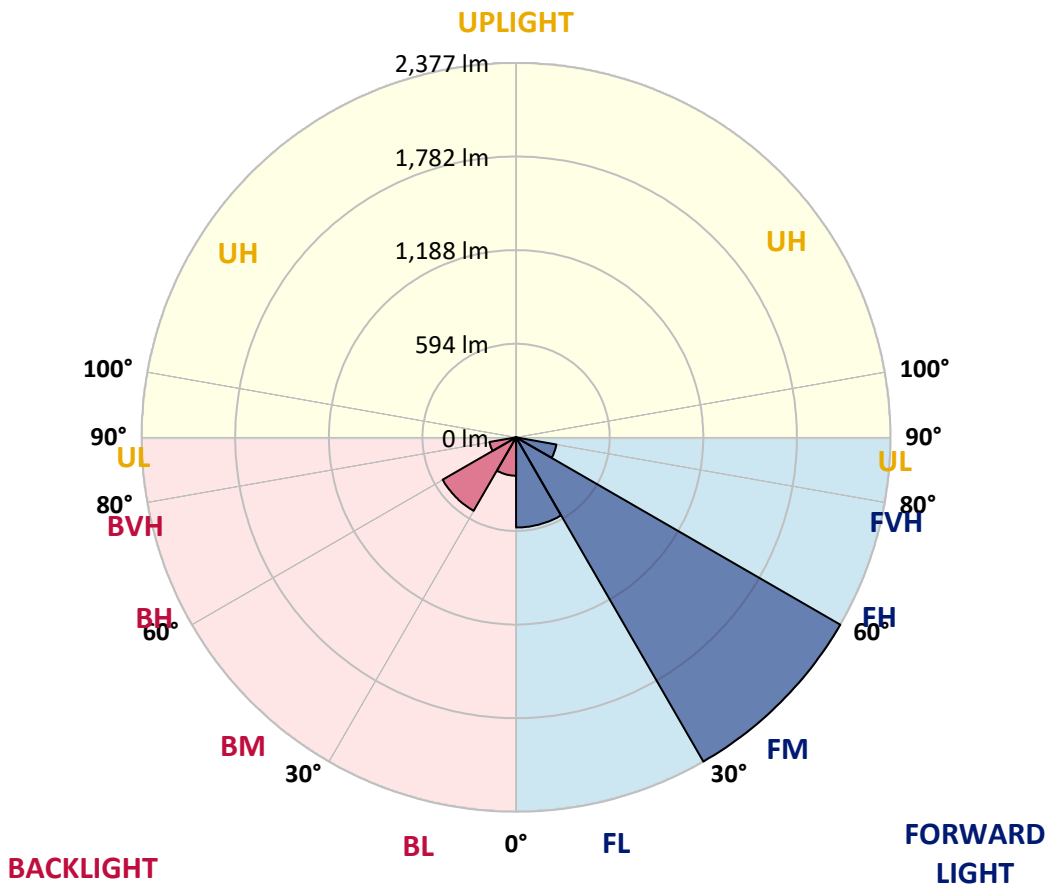
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	572.1	13.7			
FM (30°-60°)	2376.6	57.0			
FH (60°-80°)	259.9	6.2			G0/660
FVH (80°-90°)	4.0	0.1			G0/10
BL (0°-30°)	243.7	5.8	B1/500		
BM (30°-60°)	538.5	12.9	B1/1000		
BH (60°-80°)	171.3	4.1	B1/500		G1/500
BVH (80°-90°)	6.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	632.1	632.1	632.1	632.1	632.1	632.1	632.1	632.1	632.1	632.1	632.1
2.5°	819.1	825.2	815.7	816.3	792.5	781.7	751.1	733.1	721.2	687.9	657.6
5°	984.2	977.1	969.6	965.2	944.5	915.2	877.2	846.9	819.1	753.8	690.9
7.5°	1085.5	1081.8	1076.7	1073.9	1053.6	1023.0	984.9	959.1	918.6	830.3	731.4
10°	1171.5	1167.1	1164.0	1166.0	1149.4	1129.7	1088.2	1058.7	1013.1	911.2	780.3
12.5°	1238.1	1240.5	1241.5	1252.4	1245.2	1233.3	1190.5	1159.3	1108.6	996.5	837.7
15°	1290.8	1290.1	1302.0	1322.7	1334.3	1326.8	1292.5	1266.3	1204.5	1080.4	899.6
17.5°	1303.0	1303.7	1322.4	1358.7	1396.5	1414.8	1395.5	1364.2	1303.0	1163.3	963.8
20°	1312.9	1314.2	1333.6	1375.1	1430.1	1481.4	1484.5	1462.1	1409.4	1253.1	1029.1
22.5°	1375.1	1378.1	1383.2	1409.4	1459.0	1523.9	1559.6	1554.8	1510.7	1347.2	1099.4
25°	1538.5	1529.4	1504.5	1497.1	1516.1	1568.8	1629.6	1638.8	1617.0	1450.8	1175.2
27.5°	1740.4	1730.5	1693.8	1655.1	1614.0	1632.3	1697.2	1724.8	1725.1	1565.0	1251.4
30°	1923.6	1915.8	1885.9	1830.5	1759.4	1732.9	1780.8	1817.9	1840.0	1696.9	1338.0
32.5°	2080.3	2073.1	2032.7	1987.5	1918.1	1864.8	1882.1	1917.8	1969.5	1867.5	1445.7
35°	2212.1	2205.0	2166.2	2120.7	2056.5	2024.5	2018.4	2042.9	2109.8	2045.6	1569.5
37.5°	2319.2	2312.0	2271.6	2228.8	2179.8	2181.9	2191.1	2202.9	2241.4	2236.3	1701.7
40°	2388.5	2381.0	2352.1	2321.6	2290.6	2315.1	2360.6	2346.4	2366.8	2390.2	1823.3
42.5°	2419.4	2409.9	2393.3	2386.5	2377.0	2415.0	2502.7	2488.4	2464.0	2492.8	1913.7
45°	2388.5	2380.4	2380.0	2400.7	2422.8	2471.8	2600.9	2589.4	2527.5	2542.5	1967.8
47.5°	2293.7	2286.6	2305.9	2360.3	2414.7	2486.0	2644.8	2646.8	2572.7	2563.2	2002.8
50°	2088.8	2084.0	2140.1	2243.1	2336.9	2441.5	2630.8	2654.3	2583.6	2556.7	1998.4
52.5°	1672.1	1694.2	1816.2	1988.2	2170.3	2363.4	2579.2	2609.8	2531.3	2514.3	1974.6
55°	1144.6	1154.8	1276.8	1528.0	1816.9	2194.1	2460.6	2507.8	2469.4	2507.1	1999.4
57.5°	592.7	600.9	697.0	920.0	1232.3	1733.9	2131.2	2286.2	2344.7	2543.1	2076.5
60°	243.3	250.1	289.9	397.6	621.6	1009.7	1533.8	1763.5	1900.8	2322.6	1844.1
62.5°	176.7	180.1	199.2	237.2	325.6	494.8	868.0	952.6	1049.1	1455.6	1170.8
65°	148.9	152.6	167.9	191.0	237.6	303.5	370.8	372.8	410.9	593.0	434.0
67.5°	124.7	128.1	141.7	161.4	192.0	215.5	199.2	199.5	198.8	215.1	208.0
70°	97.2	99.9	113.5	134.6	150.6	138.3	155.7	172.3	165.2	171.6	181.5
72.5°	71.0	74.1	86.0	102.0	97.9	98.6	126.1	143.1	139.0	146.1	155.3
75°	51.3	53.4	59.5	51.0	53.7	64.9	88.7	97.9	102.0	108.1	116.2
77.5°	16.7	16.7	18.7	23.5	29.2	36.0	45.2	48.9	55.1	61.9	67.6
80°	8.5	8.8	10.5	12.9	16.3	20.7	26.5	28.2	31.3	35.0	37.4
82.5°	4.1	4.4	5.1	6.5	8.5	10.9	14.6	16.3	18.4	20.7	22.4
85°	1.0	1.0	1.4	2.0	2.7	4.1	5.4	6.5	8.2	9.9	10.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.3	1.0	1.4	1.7	2.0	2.7
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°	632.1	632.1	632.1	632.1	632.1	632.1	632.1	632.1	632.1	632.1	632.1
2.5°	644.0	625.0	600.5	579.8	560.8	546.1	533.6	527.5	521.7	517.6	519.0
5°	661.7	629.1	583.5	551.9	532.6	522.7	515.9	512.5	511.8	509.1	508.1
7.5°	687.5	641.0	580.1	548.2	535.3	530.2	526.4	524.4	525.4	522.7	521.7
10°	719.5	660.7	588.6	560.4	549.2	545.5	541.4	538.7	537.3	533.2	532.6
12.5°	759.2	685.2	603.9	576.1	564.8	558.4	552.9	548.2	545.1	540.0	538.7
15°	802.1	712.3	621.9	591.4	578.1	568.6	559.7	552.6	547.2	540.4	539.4
17.5°	848.6	740.9	636.9	601.9	584.9	572.3	559.4	548.9	541.4	532.6	531.5
20°	897.2	769.8	648.1	607.0	585.2	568.2	550.9	537.0	527.5	518.6	517.9
22.5°	947.5	796.3	654.9	605.6	579.8	558.7	538.0	522.4	511.1	500.6	499.9
25°	998.2	821.8	656.6	600.2	568.9	544.4	523.7	505.4	492.8	480.9	479.5
27.5°	1049.5	843.2	652.5	589.3	554.3	527.8	507.1	489.1	476.1	464.2	462.2
30°	1104.2	861.5	643.7	575.0	537.3	510.1	489.7	476.1	463.9	452.0	450.0
32.5°	1162.6	877.5	631.1	557.7	517.6	492.5	477.5	465.3	453.0	442.5	440.5
35°	1232.3	888.0	612.4	535.3	499.2	479.5	469.3	455.1	440.1	428.6	427.5
37.5°	1304.4	896.2	590.0	513.9	483.3	472.1	463.6	444.2	425.5	411.6	409.9
40°	1374.0	903.0	562.1	493.8	468.7	466.6	455.1	430.9	398.7	383.0	381.7
42.5°	1439.0	905.0	532.9	472.4	455.4	454.4	441.5	404.1	379.3	369.4	368.1
45°	1483.5	903.3	502.6	452.3	442.2	436.7	423.1	384.7	369.4	360.6	358.9
47.5°	1516.4	894.5	468.7	431.3	427.2	419.7	390.5	372.5	358.2	349.4	347.7
50°	1510.7	857.8	434.3	410.9	409.2	402.7	366.7	357.2	344.6	335.1	333.7
52.5°	1480.8	788.1	399.3	388.5	391.9	379.3	349.7	338.8	328.0	317.1	314.7
55°	1488.2	737.8	372.8	366.7	372.8	344.3	330.7	319.1	308.9	298.4	296.4
57.5°	1520.9	688.2	344.6	343.3	349.7	317.4	306.2	291.6	277.0	268.5	268.5
60°	1277.2	501.6	295.0	298.4	313.0	295.7	285.8	270.9	254.9	247.4	247.4
62.5°	755.2	314.7	244.7	241.0	250.1	261.0	266.4	254.2	235.2	225.3	225.7
65°	332.7	229.1	215.8	212.8	210.0	217.5	232.5	233.5	213.4	201.9	202.2
67.5°	204.9	207.3	201.9	199.5	197.1	195.8	194.4	195.1	189.6	179.1	178.8
70°	184.9	191.3	187.6	185.6	182.5	180.1	172.0	158.7	149.5	146.8	149.9
72.5°	159.1	167.9	165.8	164.8	161.1	155.3	144.4	131.5	120.6	113.9	115.2
75°	120.0	127.1	128.1	128.5	124.4	118.9	107.7	96.9	87.3	80.2	81.9
77.5°	69.0	73.1	74.1	75.1	72.0	70.0	62.5	54.7	49.6	42.1	44.2
80°	38.4	40.1	40.1	40.4	38.7	36.4	31.3	26.8	24.5	21.1	21.4
82.5°	23.1	23.8	24.1	24.5	23.5	21.1	17.3	14.3	12.9	11.2	10.9
85°	11.2	11.9	11.9	12.2	10.5	9.2	7.1	5.4	4.8	3.4	3.7
87.5°	2.7	3.1	3.1	2.7	2.4	1.7	1.0	0.3	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)