

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: P630847

Luminaire Tested: GWS-SA1E-740-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630847
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-SA1E-740-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5079.6 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

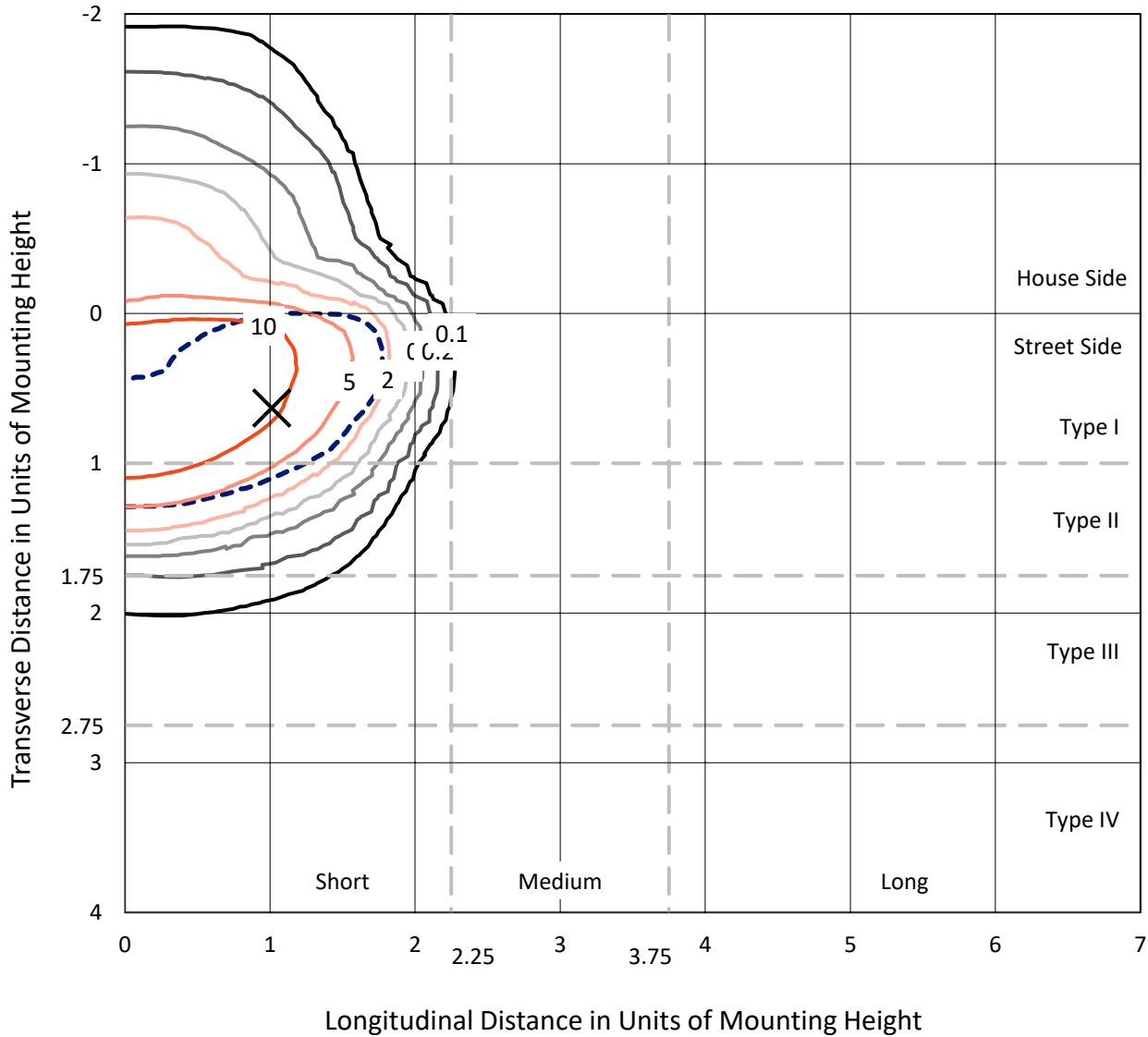
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

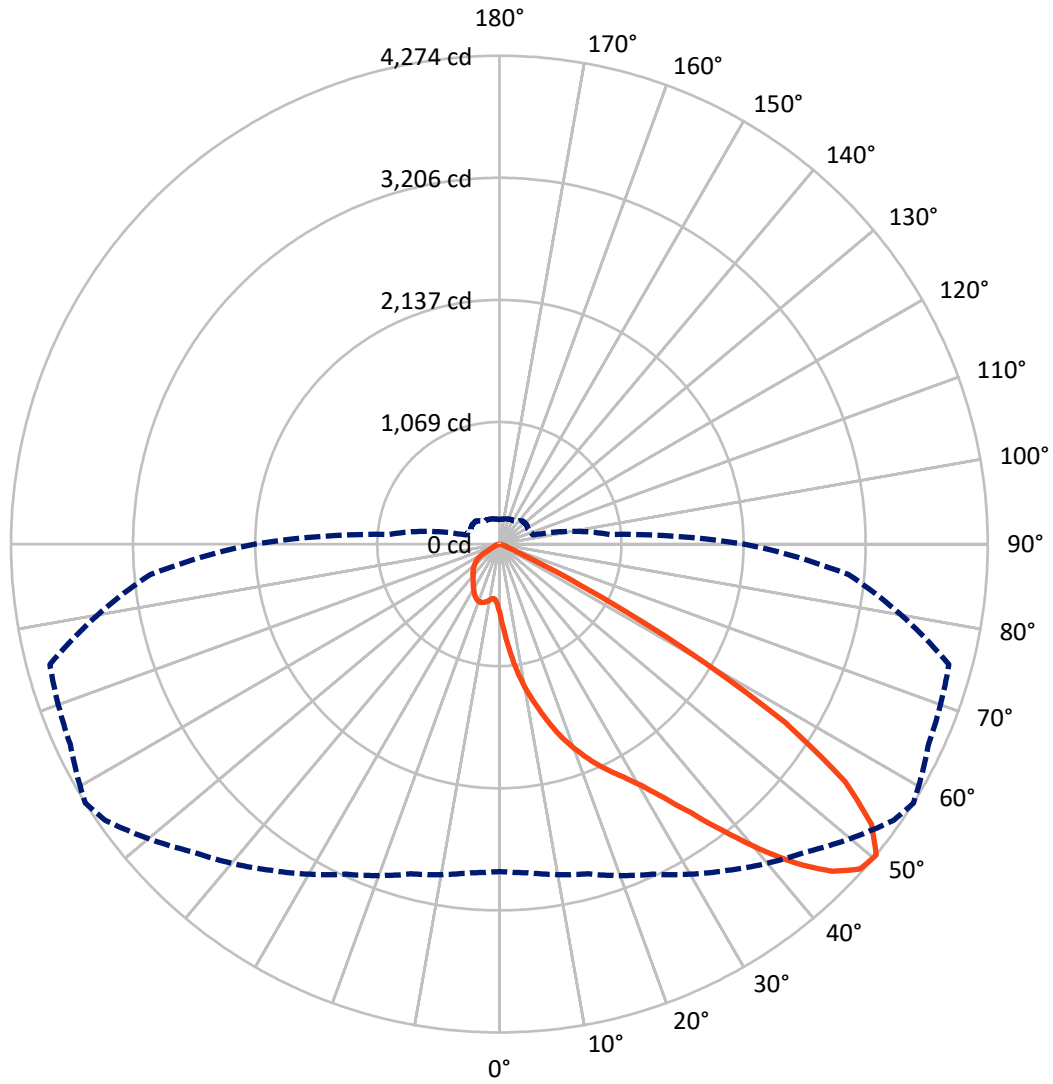
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.6 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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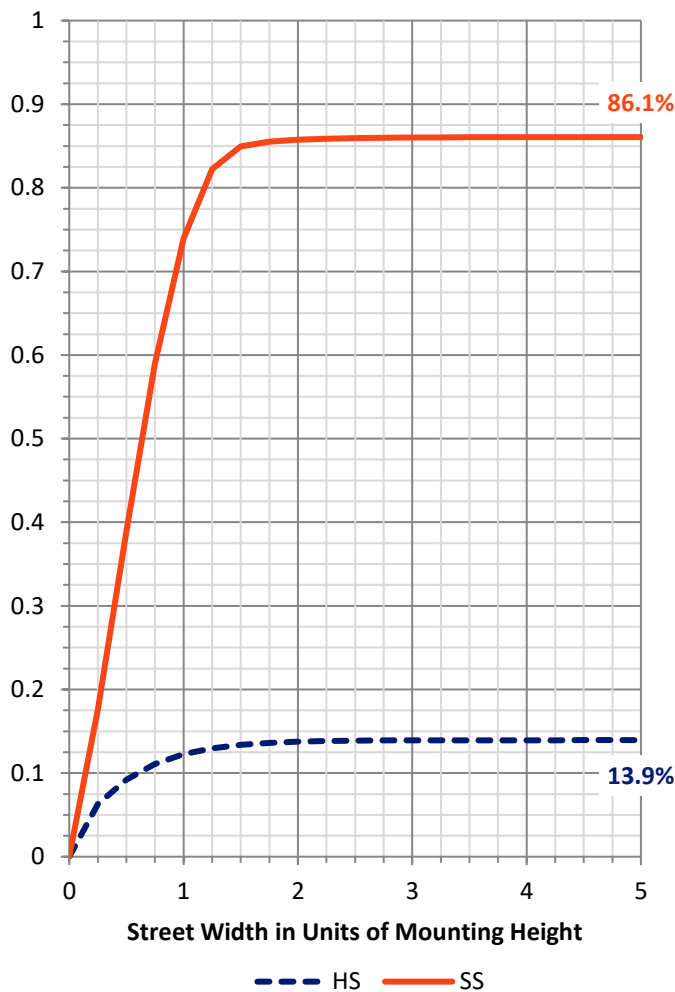
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	711.5	0.0	711.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	4368.1	0.0	4368.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	5079.6	0.0	5079.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	1.5
10°-20°	297.6	5.9
20°-30°	602.1	11.9
30°-40°	1065.2	21.0
40°-50°	1552.9	30.6
50°-60°	1244.7	24.5
60°-70°	224.2	4.4
70°-80°	17.7	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°	5079.6	100.0
0°-180°	5079.6	100.0

Coefficient of Utilization



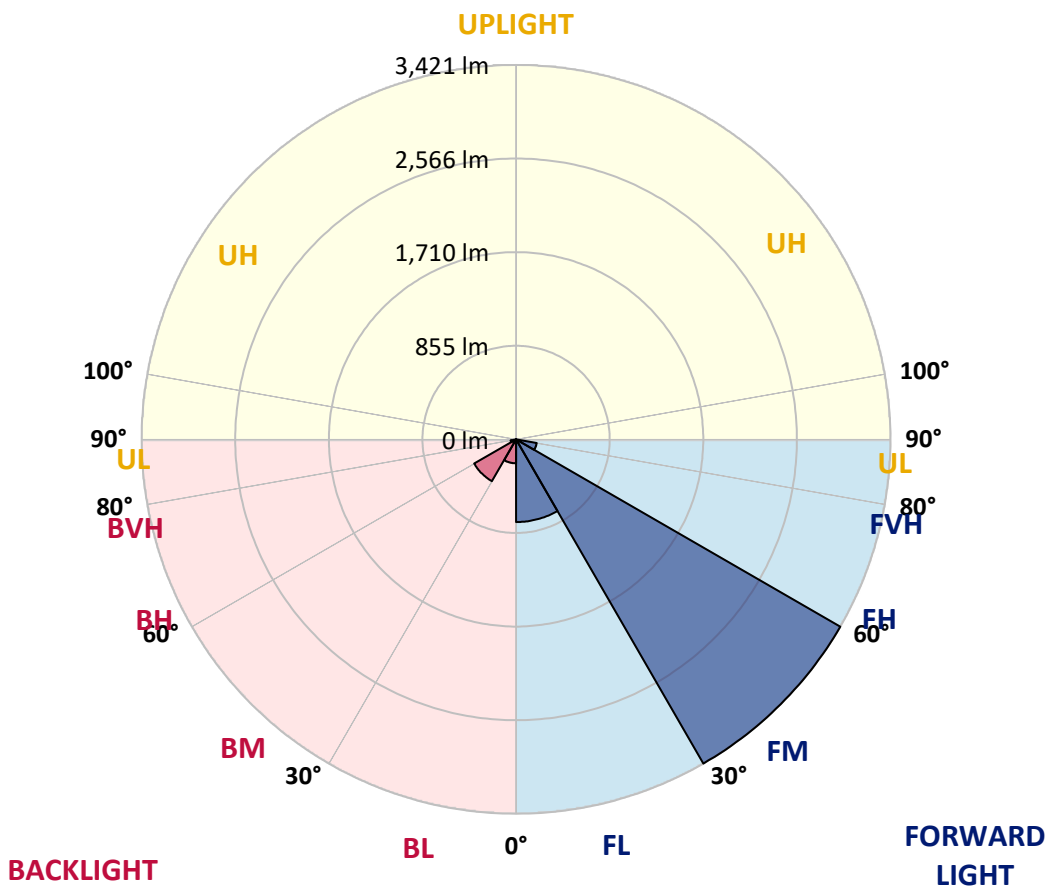
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	755.8	14.9			
FM (30°-60°)	3421.0	67.3			
FH (60°-80°)	191.3	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	219.0	4.3	B1/500		
BM (30°-60°)	441.9	8.7	B1/1000		
BH (60°-80°)	50.6	1.0	B0/110		G0/110
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: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	606.7	606.7	606.7	606.7	606.7	606.7	606.7	606.7	606.7	606.7	606.7
2.5°	897.9	883.8	875.6	869.1	840.3	794.7	764.8	749.1	723.0	679.0	641.0
5°	1171.7	1161.4	1142.3	1129.3	1092.4	1027.7	960.9	934.3	875.1	775.7	686.6
7.5°	1353.1	1345.5	1338.4	1321.1	1286.3	1227.6	1153.7	1126.0	1034.8	893.6	747.4
10°	1492.7	1486.7	1478.6	1478.0	1450.9	1398.2	1325.9	1297.2	1198.3	1021.8	819.1
12.5°	1615.5	1610.6	1608.9	1624.2	1606.8	1567.7	1489.4	1453.6	1348.8	1152.7	898.4
15°	1699.7	1698.6	1705.6	1735.5	1745.3	1727.4	1661.6	1623.1	1502.5	1284.1	985.9
17.5°	1738.2	1741.5	1755.1	1806.7	1850.1	1865.3	1814.8	1782.2	1655.1	1417.2	1079.3
20°	1804.0	1802.9	1811.0	1859.9	1913.1	1967.5	1952.2	1924.5	1809.4	1557.9	1183.1
22.5°	1989.2	1973.4	1956.0	1963.7	1982.7	2046.2	2074.5	2060.3	1968.5	1702.4	1290.1
25°	2273.8	2257.5	2201.6	2147.3	2111.4	2140.2	2178.8	2185.8	2126.6	1850.7	1402.0
27.5°	2575.8	2561.2	2498.2	2416.7	2314.0	2264.0	2292.8	2307.0	2282.0	2027.2	1520.9
30°	2858.8	2839.3	2770.3	2669.3	2550.3	2473.7	2441.1	2450.9	2465.6	2236.3	1660.5
32.5°	3104.4	3089.7	3007.1	2900.7	2786.1	2706.2	2630.2	2646.4	2682.3	2492.2	1839.3
35°	3312.4	3304.8	3217.3	3111.4	2990.3	2949.6	2884.4	2887.6	2923.5	2801.3	2057.1
37.5°	3493.3	3480.3	3400.9	3302.6	3206.5	3200.0	3182.0	3183.7	3202.1	3161.4	2307.5
40°	3607.4	3595.4	3538.9	3478.1	3409.6	3410.7	3503.6	3510.7	3489.5	3515.0	2572.0
42.5°	3650.3	3641.6	3611.2	3611.7	3604.6	3636.7	3811.1	3824.1	3748.0	3792.6	2798.0
45°	3575.9	3572.1	3574.2	3652.4	3737.2	3836.0	4062.6	4085.4	3977.8	3976.7	2974.5
47.5°	3335.8	3328.2	3391.7	3524.8	3720.9	3913.2	4214.7	4250.0	4138.6	4082.1	3085.4
50°	2865.4	2887.1	2987.6	3187.5	3485.7	3807.3	4213.0	4274.4	4144.6	4072.9	3066.9
52.5°	2075.6	2071.2	2291.2	2566.1	2928.9	3468.3	3989.2	4078.9	3999.5	3982.2	3025.6
55°	1129.3	1169.0	1317.2	1681.2	2134.2	2826.8	3478.1	3673.6	3765.4	3949.0	3100.0
57.5°	415.0	432.4	525.3	782.7	1129.8	1757.8	2656.8	2951.7	3235.3	3856.7	3087.5
60°	167.3	170.6	207.5	287.9	474.8	894.6	1593.7	1855.6	2122.8	2952.3	2369.4
62.5°	121.7	126.0	140.7	168.4	240.1	391.1	687.1	799.0	873.5	1462.3	1167.3
65°	98.3	101.6	113.5	126.0	158.6	210.2	221.6	213.5	212.4	378.1	267.8
67.5°	81.5	84.7	93.4	102.1	114.1	104.8	76.0	79.8	65.2	64.6	52.7
70°	59.8	63.6	72.2	81.5	68.4	28.2	44.0	65.2	49.4	41.3	40.2
72.5°	45.1	47.8	55.9	53.2	20.1	10.9	29.3	47.3	38.0	30.4	29.9
75°	33.7	35.3	28.2	8.7	2.2	2.7	10.9	19.6	21.2	17.4	17.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.6	2.2	2.7	3.3
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°	606.7	606.7	606.7	606.7	606.7	606.7	606.7	606.7	606.7	606.7	606.7
2.5°	619.2	596.4	563.8	536.7	516.0	495.9	480.7	465.5	465.0	457.4	455.7
5°	645.3	604.0	544.3	501.4	475.3	459.5	448.7	443.2	440.5	437.8	436.7
7.5°	682.8	623.6	541.0	495.4	473.7	463.3	455.7	452.5	450.9	448.7	448.1
10°	729.0	651.8	553.0	506.8	487.8	478.0	469.9	465.0	462.3	458.5	457.4
12.5°	784.4	686.6	572.0	525.8	505.7	492.7	481.8	474.8	471.0	466.1	465.0
15°	844.1	724.1	593.2	543.2	519.3	502.5	488.9	478.0	471.0	465.0	463.3
17.5°	906.1	762.1	612.2	555.1	525.8	505.7	486.2	471.5	462.8	455.2	453.0
20°	975.6	801.2	624.7	557.3	523.6	497.0	474.2	455.7	447.0	436.7	434.6
22.5°	1048.4	837.6	630.1	552.4	511.7	480.7	456.3	437.3	424.8	413.9	410.7
25°	1119.0	870.2	627.4	538.9	493.8	457.9	432.9	413.4	399.8	388.9	386.2
27.5°	1193.9	897.4	617.6	518.8	469.3	432.9	409.0	392.2	379.7	367.7	365.0
30°	1278.1	922.3	601.9	494.3	440.5	407.4	388.9	377.5	363.9	351.4	347.6
32.5°	1379.7	944.6	579.0	465.0	415.0	385.1	374.8	366.1	350.4	337.3	334.6
35°	1496.0	963.1	550.3	434.6	390.0	371.0	368.8	357.4	336.8	321.6	318.3
37.5°	1630.7	981.0	516.0	404.7	371.5	364.5	365.0	345.5	320.5	302.0	299.8
40°	1775.7	998.9	478.0	378.6	354.7	360.7	355.8	328.1	287.4	269.4	267.3
42.5°	1926.7	1018.5	439.4	354.2	340.6	346.0	339.0	293.3	264.0	254.8	253.7
45°	2063.1	1041.8	397.6	329.7	326.5	324.8	312.9	265.6	253.1	246.6	246.1
47.5°	2161.4	1038.0	353.1	306.4	311.3	305.8	269.4	252.6	242.3	233.6	231.4
50°	2143.4	971.8	306.9	280.3	291.7	286.8	242.3	237.4	228.1	218.9	215.6
52.5°	2097.8	881.6	266.7	252.6	270.5	259.1	223.8	218.9	210.8	198.8	195.0
55°	2122.3	796.9	235.2	230.3	248.8	214.6	203.2	195.6	186.9	173.8	172.2
57.5°	2043.5	650.2	189.0	192.3	220.0	183.1	178.2	166.2	151.6	142.9	141.8
60°	1414.5	349.3	118.4	122.2	159.2	153.7	159.7	148.8	130.9	122.8	121.1
62.5°	649.7	140.1	64.6	61.9	83.7	104.3	136.9	135.8	113.5	100.5	99.4
65°	157.5	64.1	46.2	43.5	47.3	62.5	89.1	107.0	91.8	76.6	75.0
67.5°	51.1	52.1	42.4	39.7	41.8	46.7	53.2	59.2	58.7	53.8	52.7
70°	40.7	47.3	39.1	35.9	35.9	37.5	35.9	28.8	25.0	27.2	28.2
72.5°	30.4	35.9	31.0	27.7	26.6	26.1	22.3	16.3	11.4	10.3	9.8
75°	17.9	20.1	19.0	16.3	15.2	13.6	10.9	7.1	3.8	2.7	1.6
77.5°	3.3	3.8	4.3	3.3	2.7	2.2	1.6	0.5	0.0	0.0	0.0
80°	0.0	0.5	0.5	0.5	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)