

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: P631312

Luminaire Tested: GWS-SA1F-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-740-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE 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: 6345.2 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

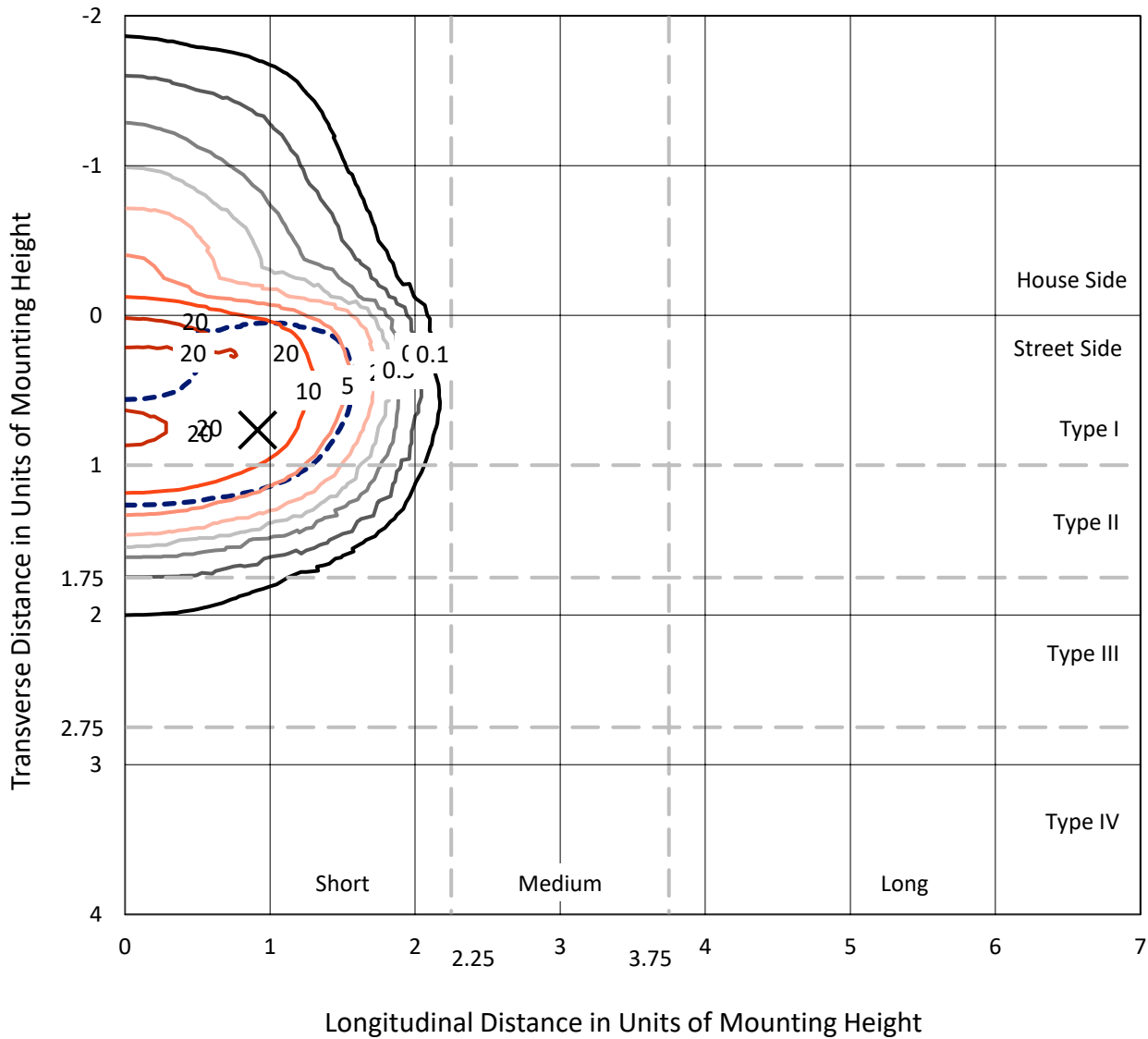
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

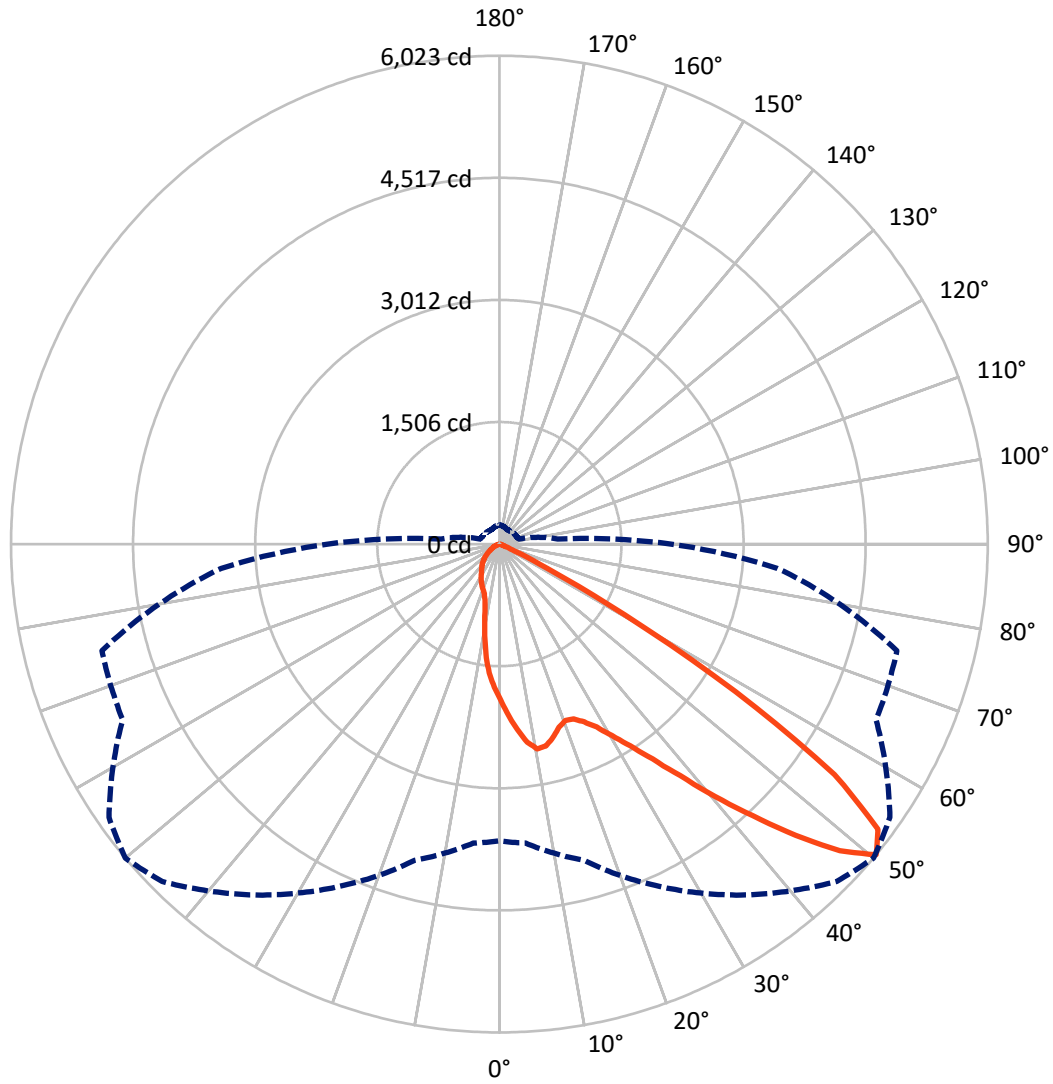
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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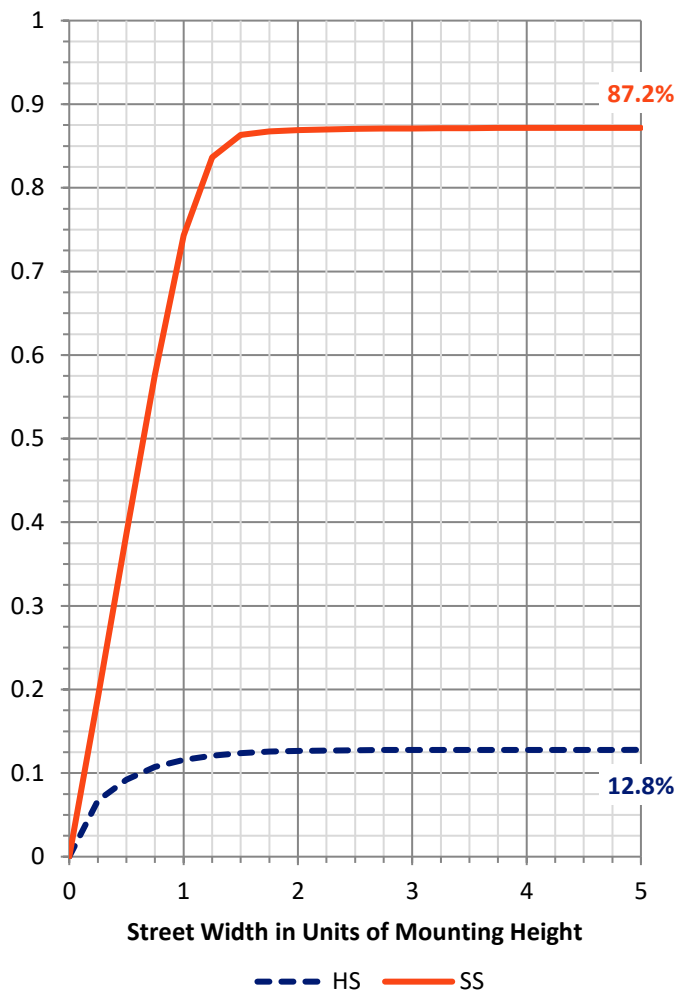
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	815.3	0.0	815.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	5529.9	0.0	5529.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	6345.2	0.0	6345.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.3	2.8
10°-20°	460.1	7.3
20°-30°	759.3	12.0
30°-40°	1253.0	19.7
40°-50°	1982.6	31.2
50°-60°	1501.1	23.7
60°-70°	187.9	3.0
70°-80°	21.2	0.3
80°-90°	1.6	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°	6345.2	100.0
0°-180°	6345.2	100.0

Coefficient of Utilization



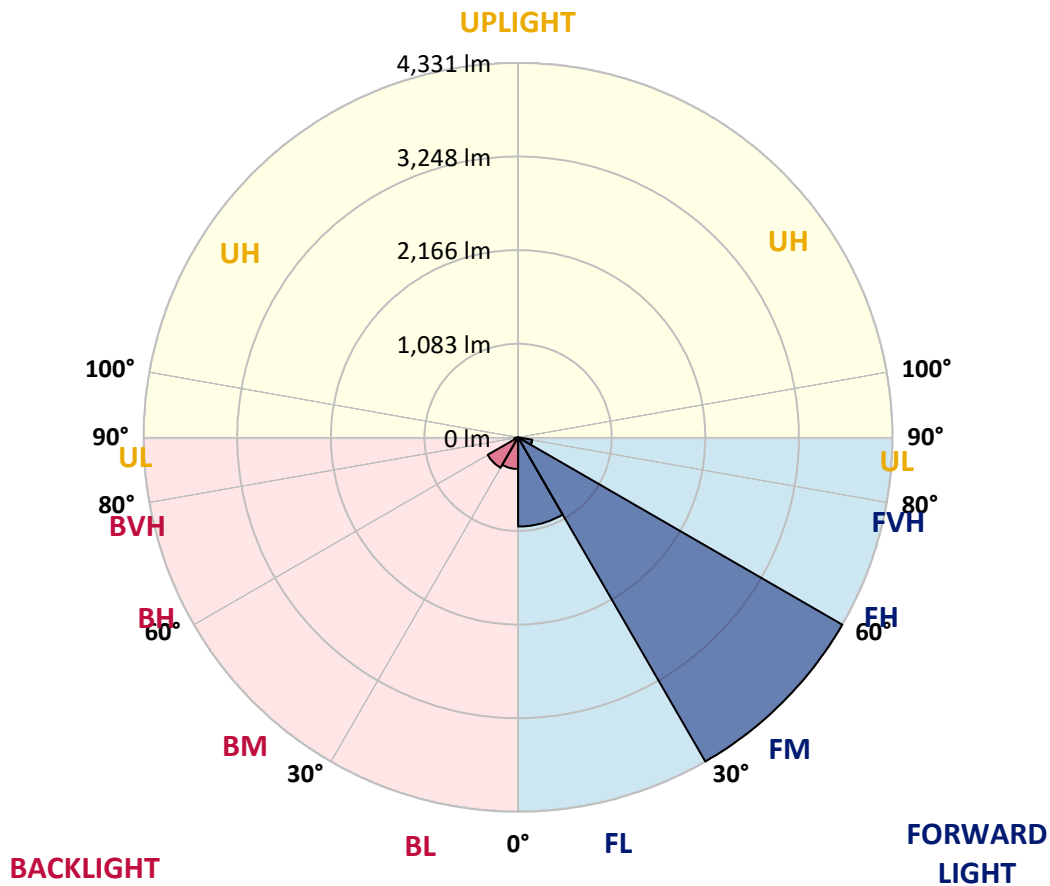
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1031.8	16.3			
FM (30°-60°)	4331.3	68.3			
FH (60°-80°)	166.1	2.6			G0/660
FVH (80°-90°)	0.8	0.0			G0/10
BL (0°-30°)	365.9	5.8	B1/500		
BM (30°-60°)	405.4	6.4	B1/1000		
BH (60°-80°)	43.0	0.7	B0/110		G0/110
BVH (80°-90°)	0.9	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°	50°	55°	65°	75°	85°
0°	1922.3	1922.3	1922.3	1922.3	1922.3	1922.3	1922.3	1922.3	1922.3	1922.3	1922.3
2.5°	2190.5	2208.0	2203.2	2180.2	2155.5	2138.0	2110.8	2102.3	2040.7	1997.8	1952.5
5°	2455.0	2460.5	2454.4	2426.6	2383.2	2341.5	2296.8	2270.8	2167.5	2074.5	1979.7
7.5°	2518.4	2511.8	2523.3	2537.2	2531.1	2513.0	2465.9	2437.5	2314.3	2162.7	2019.0
10°	2320.3	2305.2	2348.1	2420.0	2495.5	2580.6	2568.6	2571.0	2457.4	2273.8	2070.3
12.5°	2057.6	2051.6	2083.6	2166.9	2314.9	2508.2	2554.7	2632.6	2588.5	2394.0	2128.9
15°	1942.3	1945.3	1964.6	2017.2	2123.5	2363.8	2475.6	2616.3	2705.7	2510.6	2193.5
17.5°	1959.8	1970.7	1970.1	1987.6	2052.2	2244.8	2375.3	2564.9	2796.2	2644.7	2267.8
20°	2078.8	2089.6	2073.3	2060.0	2081.8	2214.7	2322.8	2513.0	2857.2	2779.9	2346.3
22.5°	2256.9	2269.6	2231.0	2192.9	2179.0	2264.2	2342.7	2491.9	2903.7	2903.7	2416.4
25°	2472.5	2490.0	2430.3	2362.6	2324.0	2368.7	2427.8	2539.6	2951.5	3014.9	2464.1
27.5°	2713.5	2714.1	2662.8	2586.7	2514.2	2519.6	2555.3	2647.1	3004.0	3134.5	2501.5
30°	2984.7	2986.5	2918.2	2827.0	2735.9	2711.1	2741.3	2810.7	3113.3	3284.8	2553.5
32.5°	3335.0	3343.4	3245.6	3111.5	2993.1	2946.6	2964.1	3037.2	3287.2	3473.3	2631.4
35°	3808.5	3817.5	3673.2	3496.2	3307.8	3237.7	3255.2	3328.9	3539.1	3740.8	2755.8
37.5°	4275.9	4288.0	4141.8	3976.9	3718.5	3602.5	3620.6	3690.7	3917.2	4110.4	2955.1
40°	4599.0	4615.3	4570.0	4458.9	4219.1	4066.9	4088.7	4114.0	4333.3	4552.5	3213.6
42.5°	4769.3	4792.3	4811.6	4868.4	4742.1	4614.7	4577.9	4579.7	4756.6	5003.0	3482.3
45°	4779.6	4801.9	4901.0	5120.2	5216.2	5189.7	5122.6	5077.3	5079.7	5303.2	3650.2
47.5°	4447.4	4489.1	4674.5	5103.9	5465.1	5685.5	5651.7	5544.2	5215.6	5323.1	3632.1
50°	3660.5	3701.6	4038.6	4656.4	5283.9	5883.6	6023.1	5878.8	5126.9	5074.9	3445.5
52.5°	2658.5	2662.8	2881.4	3603.1	4549.5	5518.2	5846.8	5832.9	4991.6	4774.2	3190.6
55°	1262.8	1247.7	1493.5	2033.5	3146.5	4463.1	5016.9	5174.0	4799.5	4556.7	2993.1
57.5°	367.8	375.0	484.4	793.6	1573.9	2852.4	3435.8	3728.1	3939.5	3746.2	2321.5
60°	164.9	165.5	184.2	241.6	524.2	1326.9	1776.2	2138.0	2355.4	2182.6	1151.7
62.5°	119.6	120.2	127.4	136.5	178.2	449.3	666.1	887.8	904.1	591.9	291.7
65°	99.7	99.7	100.9	100.9	106.9	160.6	202.3	260.9	219.8	163.1	114.1
67.5°	80.3	80.9	82.1	82.1	80.3	80.3	87.0	95.4	102.1	126.2	105.1
70°	62.8	62.2	62.2	62.8	61.0	51.9	56.2	64.0	70.1	98.4	91.2
72.5°	48.9	49.5	48.9	46.5	42.3	30.8	33.2	41.7	44.7	61.6	61.6
75°	36.8	37.4	35.0	26.6	17.5	9.7	12.7	20.5	26.0	30.2	22.3
77.5°	4.8	4.8	3.6	3.6	3.0	3.6	3.6	4.8	7.2	7.2	5.4
80°	0.6	0.6	0.6	1.2	1.8	2.4	2.4	2.4	2.4	3.0	3.0
82.5°	0.6	0.6	0.6	0.6	1.8	1.8	2.4	2.4	2.4	2.4	2.4
85°	0.0	0.0	0.0	0.6	1.2	1.8	1.8	2.4	2.4	2.4	2.4
87.5°	0.0	0.0	0.0	0.6	1.2	1.8	1.8	1.8	2.4	2.4	2.4
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°	1922.3	1922.3	1922.3	1922.3	1922.3	1922.3	1922.3	1922.3	1922.3	1922.3	1922.3
2.5°	1925.4	1890.3	1848.1	1819.1	1778.0	1750.8	1712.2	1686.2	1663.9	1646.3	1656.0
5°	1926.0	1870.4	1784.0	1710.4	1630.0	1556.4	1477.2	1415.0	1358.9	1333.5	1347.4
7.5°	1938.0	1858.3	1726.1	1595.0	1441.0	1288.8	1146.3	1030.3	972.9	945.8	954.2
10°	1961.6	1852.9	1661.4	1444.0	1194.0	986.2	847.9	769.4	737.4	720.5	723.5
12.5°	1983.3	1849.3	1577.5	1245.3	942.1	765.2	693.3	682.5	689.1	689.7	689.1
15°	2012.9	1842.6	1473.6	1041.2	753.7	661.3	663.1	678.8	694.5	699.4	698.2
17.5°	2044.3	1832.4	1339.5	845.5	639.6	631.1	652.3	673.4	689.1	691.5	692.1
20°	2077.0	1811.2	1186.7	690.3	586.4	608.2	631.7	647.4	658.9	662.5	663.7
22.5°	2092.1	1766.5	1010.4	579.2	550.8	579.8	597.3	617.8	621.5	608.2	610.6
25°	2084.2	1691.0	838.3	504.3	515.2	544.2	570.1	559.9	544.8	535.1	538.1
27.5°	2059.4	1590.8	669.8	449.3	477.1	514.0	517.0	505.5	503.1	495.2	497.6
30°	2032.9	1475.4	538.7	405.2	438.5	477.1	468.1	472.3	472.9	463.8	466.8
32.5°	2016.6	1354.6	428.8	375.7	413.7	420.9	439.1	447.5	448.1	427.0	430.6
35°	2022.0	1235.7	363.0	351.5	390.7	388.9	414.3	419.1	384.1	355.1	358.1
37.5°	2066.1	1125.7	325.5	332.8	350.9	364.8	384.1	352.1	344.2	331.0	332.8
40°	2148.2	1032.1	303.2	321.3	323.7	346.1	316.5	320.7	321.3	312.8	314.7
42.5°	2244.2	954.2	289.9	314.7	308.6	312.2	282.6	291.1	300.2	296.5	297.1
45°	2292.6	878.1	278.4	291.7	293.5	259.1	252.4	261.5	273.0	274.8	275.4
47.5°	2249.7	805.7	266.3	258.5	270.6	236.1	228.3	231.3	244.6	251.8	253.1
50°	2118.6	722.3	248.2	228.9	222.3	212.0	204.7	205.3	220.4	233.1	235.5
52.5°	1934.4	635.3	218.6	193.9	178.8	186.6	188.4	184.8	198.7	211.4	213.8
55°	1755.7	526.6	173.3	157.6	143.7	160.6	165.5	160.6	164.9	173.3	173.9
57.5°	1236.3	297.7	132.9	130.5	119.0	137.7	145.5	138.3	131.1	136.5	137.7
60°	573.1	155.8	102.1	102.1	99.0	118.4	131.7	121.4	107.5	109.9	111.7
62.5°	179.4	98.4	74.9	70.7	80.9	100.9	111.7	101.5	85.2	85.2	87.6
65°	101.5	84.6	59.2	54.4	65.8	80.9	87.6	76.7	62.2	61.0	61.0
67.5°	94.2	80.3	52.5	44.1	46.5	51.9	54.4	47.1	42.9	42.3	42.9
70°	77.9	67.0	42.3	30.2	28.4	27.8	29.0	27.2	26.0	26.6	28.4
72.5°	48.3	40.5	26.6	18.1	15.7	15.1	15.1	15.1	14.5	14.5	14.5
75°	17.5	15.1	12.1	9.1	7.9	7.2	7.2	7.9	7.2	6.6	6.0
77.5°	5.4	4.8	4.8	4.8	4.2	3.6	3.0	3.0	2.4	1.8	1.8
80°	3.0	3.0	3.0	3.0	2.4	2.4	1.8	1.2	0.6	0.6	0.0
82.5°	3.0	3.0	3.0	2.4	2.4	2.4	1.8	1.2	0.6	0.0	0.0
85°	2.4	2.4	2.4	2.4	2.4	2.4	1.8	1.2	0.6	0.0	0.0
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	1.8	1.2	0.6	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)