

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: P633772

Luminaire Tested: GWS-SA2F-735-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-735-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12525.4 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

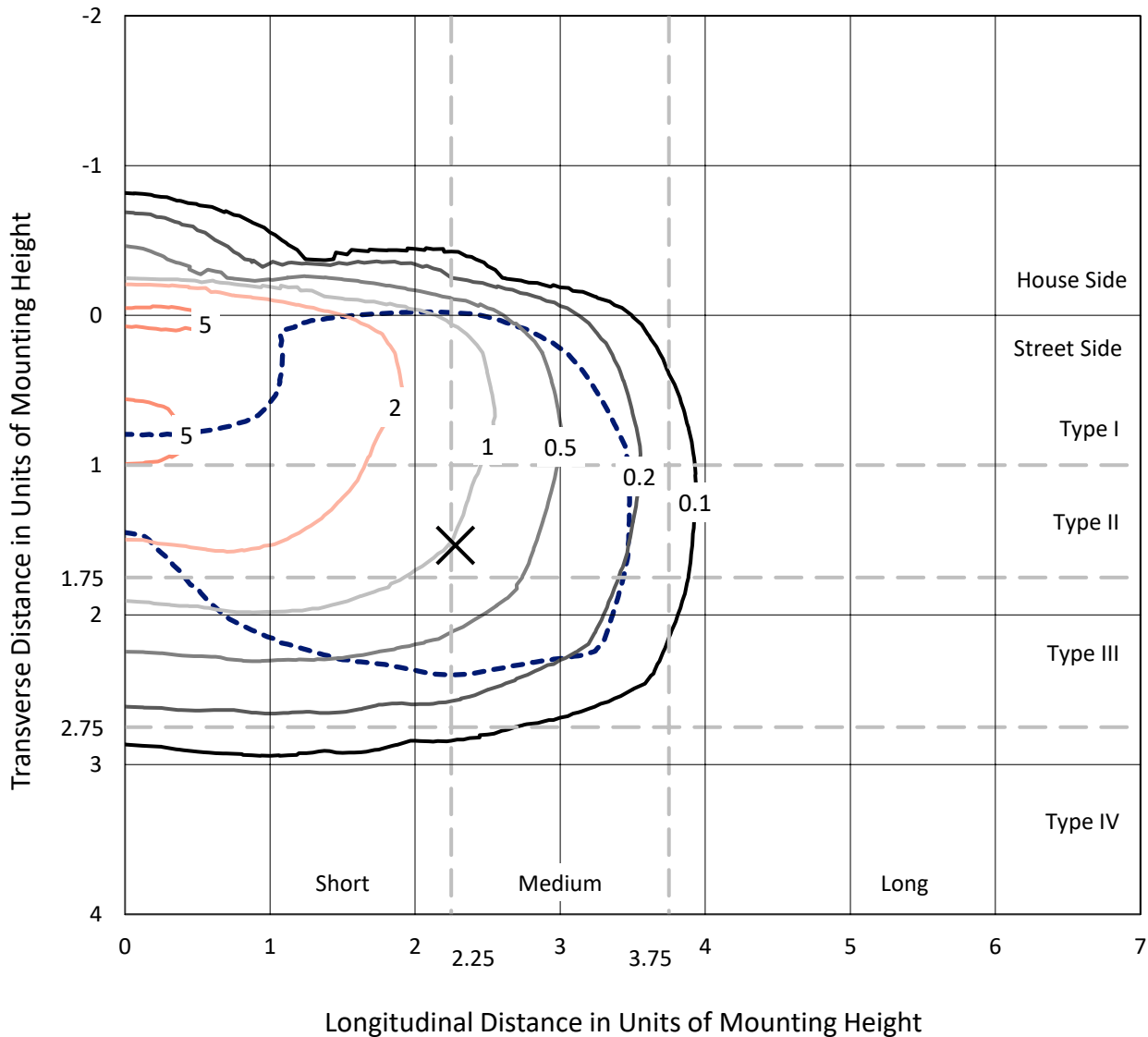
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

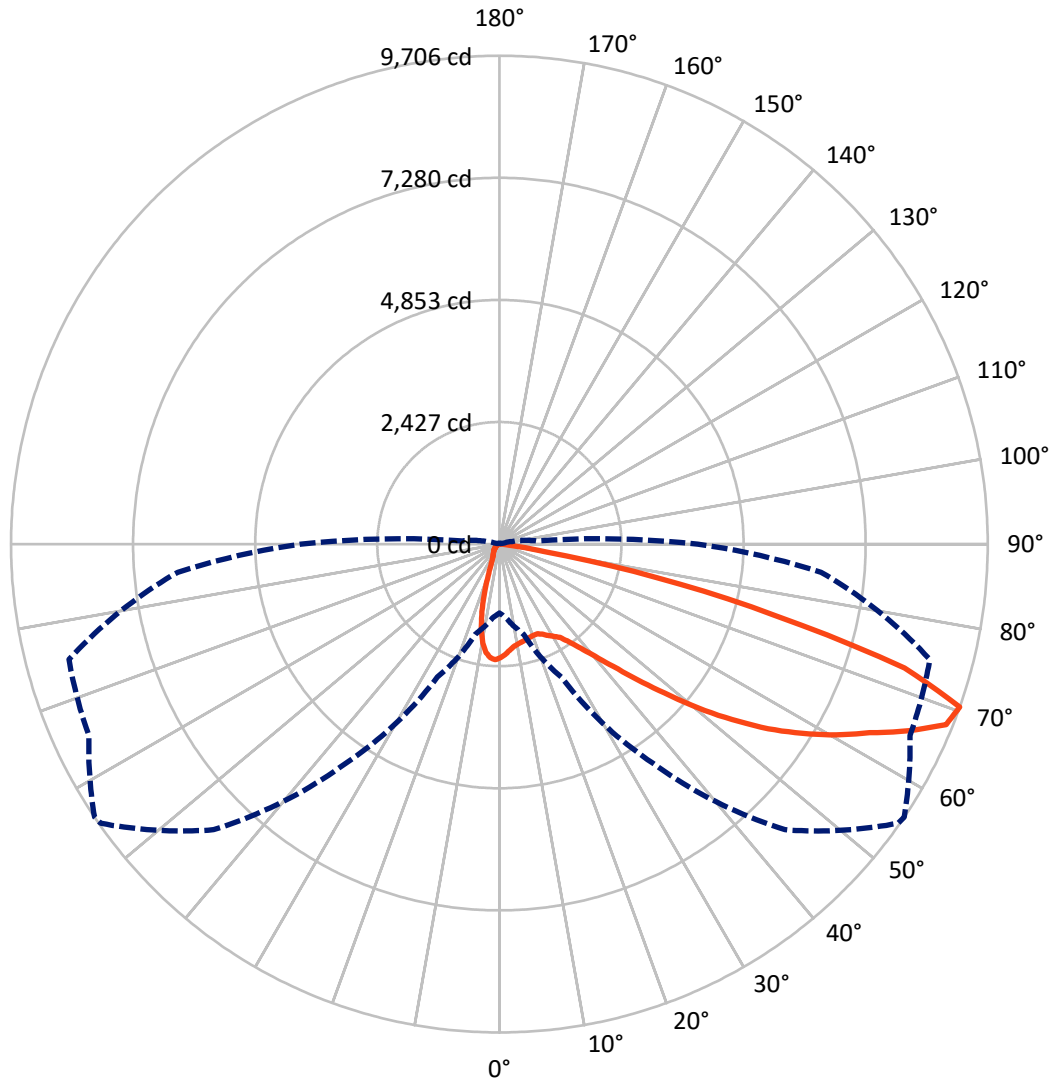
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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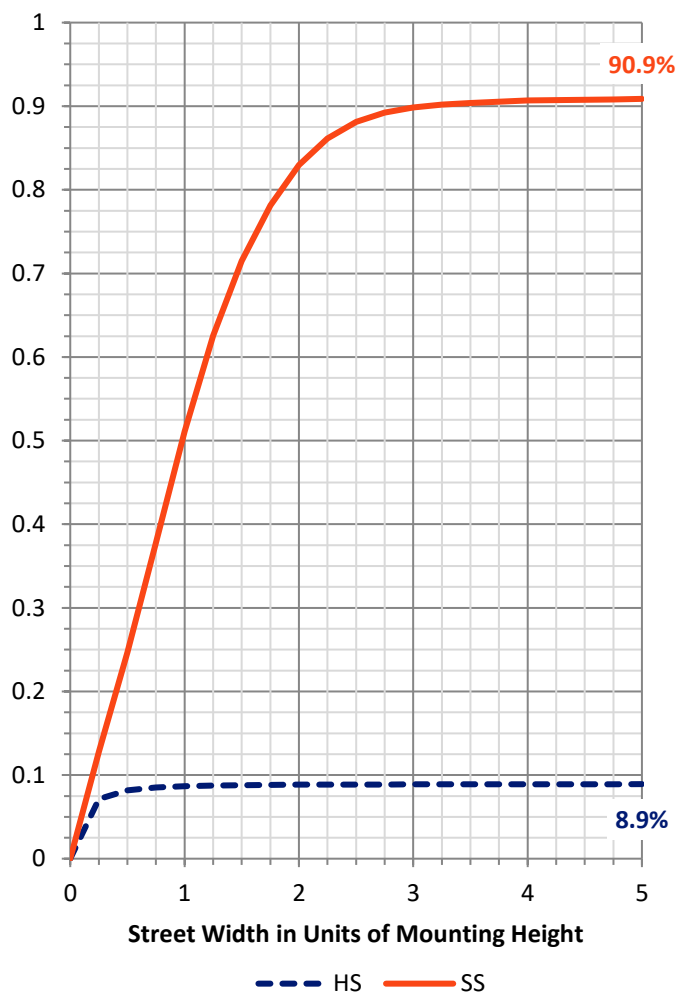
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1125.0	0.0	1125.0
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	11400.4	0.0	11400.4
	% Fixture	91.0	0.0	91.0
Total	Lumens	12525.4	0.0	12525.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.9	1.5
10°-20°	436.1	3.5
20°-30°	690.8	5.5
30°-40°	1191.3	9.5
40°-50°	2011.7	16.1
50°-60°	2955.9	23.6
60°-70°	3504.3	28.0
70°-80°	1494.4	11.9
80°-90°	46.9	0.4
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°	12525.4	100.0
0°-180°	12525.4	100.0

Coefficient of Utilization



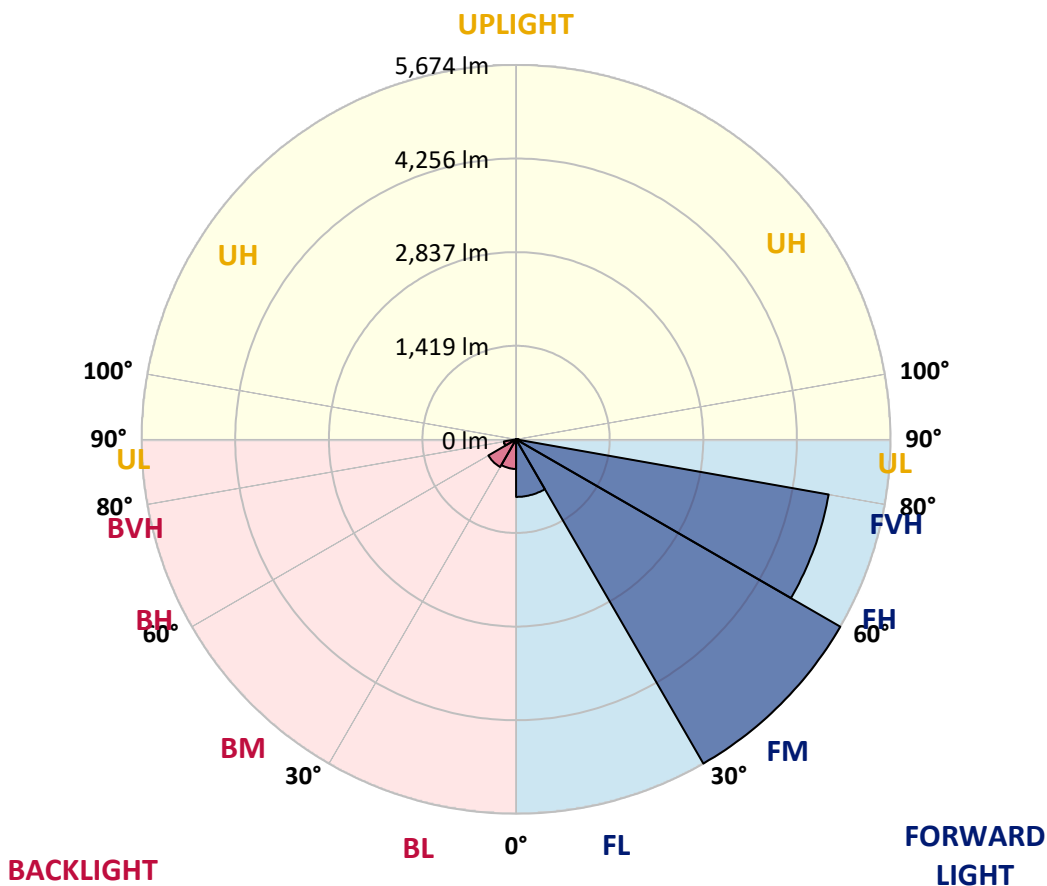
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	872.8	7.0			
FM (30°-60°)	5674.3	45.3			
FH (60°-80°)	4811.1	38.4			G2/5000
FVH (80°-90°)	42.2	0.3			G1/100
BL (0°-30°)	448.0	3.6	B1/500		
BM (30°-60°)	484.6	3.9	B1/1000		
BH (60°-80°)	187.6	1.5	B1/500		G1/500
BVH (80°-90°)	4.8	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-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2258.5	2258.5	2258.5	2258.5	2258.5	2258.5	2258.5	2258.5	2258.5	2258.5	2258.5
2.5°	2102.5	2099.0	2101.3	2118.5	2150.6	2165.5	2190.8	2195.4	2216.0	2242.4	2252.7
5°	1966.0	1954.5	1960.2	1984.3	2021.0	2062.3	2109.3	2122.0	2173.6	2232.1	2275.7
7.5°	1840.9	1828.3	1842.1	1879.9	1931.6	1976.3	2046.3	2054.3	2136.9	2240.1	2319.2
10°	1644.8	1648.2	1675.8	1742.3	1821.4	1914.4	2008.4	2019.9	2122.0	2266.5	2389.2
12.5°	1494.5	1486.5	1516.3	1592.0	1703.3	1838.7	1979.7	1994.6	2123.1	2306.6	2478.7
15°	1424.6	1422.3	1434.9	1490.0	1597.8	1757.2	1953.4	1972.9	2138.0	2343.3	2563.6
17.5°	1426.9	1423.4	1422.3	1454.4	1534.7	1696.4	1924.7	1949.9	2150.6	2383.5	2653.0
20°	1526.7	1510.6	1481.9	1467.0	1515.2	1657.4	1905.2	1933.9	2169.0	2425.9	2748.2
22.5°	1735.4	1741.2	1664.3	1584.0	1561.1	1662.0	1902.9	1936.1	2209.1	2492.4	2865.2
25°	2152.9	2143.8	2001.5	1821.4	1696.4	1714.8	1943.0	1983.2	2288.3	2587.6	2975.3
27.5°	2676.0	2684.0	2489.0	2202.3	1940.7	1823.7	2016.4	2056.6	2380.0	2647.3	3048.7
30°	3246.0	3238.0	3029.2	2711.5	2287.1	2005.0	2089.8	2125.4	2425.9	2679.4	3124.4
32.5°	3785.1	3766.8	3560.3	3227.7	2728.7	2290.6	2190.8	2211.4	2486.7	2749.4	3226.5
35°	4245.1	4243.9	4063.8	3709.4	3182.9	2648.4	2364.0	2381.2	2600.3	2860.6	3376.8
37.5°	4719.9	4703.9	4502.0	4178.5	3649.8	3040.7	2628.9	2622.1	2779.2	3024.7	3561.5
40°	5109.9	5099.6	4944.7	4633.9	4135.0	3474.3	2950.1	2929.5	2991.4	3251.8	3818.4
42.5°	5399.0	5400.1	5351.9	5162.7	4648.8	3975.5	3353.8	3321.7	3320.6	3594.7	4157.9
45°	5618.0	5632.9	5705.2	5676.5	5255.6	4559.4	3871.1	3837.9	3781.7	4039.8	4546.7
47.5°	5720.1	5739.6	5957.6	6072.3	5786.6	5138.6	4487.1	4417.1	4307.0	4631.6	4981.4
50°	5709.8	5744.2	6048.2	6396.9	6268.4	5725.9	5158.1	5124.8	4944.7	5257.9	5411.6
52.5°	5475.8	5549.2	6053.9	6594.1	6638.9	6267.2	5852.0	5790.1	5702.9	5911.7	5815.3
55°	4840.4	4929.8	5811.9	6657.2	6927.9	6739.8	6531.1	6480.6	6336.1	6528.8	6167.5
57.5°	4495.1	4572.0	5302.6	6626.3	7173.4	7176.8	7135.5	7094.2	6974.9	7139.0	6580.4
60°	4287.5	4364.4	5030.8	6512.7	7395.9	7637.9	7703.3	7698.7	7526.7	7832.9	7064.4
62.5°	3983.6	4089.1	4747.5	6217.9	7554.2	8092.1	8289.4	8258.4	8066.9	8555.5	7543.9
65°	3369.9	3461.7	4167.1	5731.6	7461.3	8468.3	8924.9	8940.9	8719.5	9235.7	7922.4
67.5°	2362.8	2430.5	3131.3	4710.8	6830.4	8592.2	9575.2	9574.1	9196.7	9584.4	7754.9
70°	1369.5	1462.4	1850.1	2912.2	5314.1	8029.0	9672.7	9706.0	9002.9	8856.0	6417.5
72.5°	529.9	606.8	1048.4	1547.3	2771.2	6150.2	8320.4	8417.9	7534.7	6831.6	4466.4
75°	158.3	176.6	493.2	823.6	1112.6	2970.7	5632.9	5660.5	5168.4	4261.1	2289.4
77.5°	118.1	130.8	215.6	416.4	390.0	900.4	2914.5	3182.9	2743.6	1522.1	630.9
80°	80.3	95.2	153.7	203.0	144.5	239.7	819.0	899.3	837.3	341.8	158.3
82.5°	35.6	45.9	109.0	102.1	52.8	68.8	252.3	268.4	173.2	103.2	55.1
85°	3.4	4.6	41.3	44.7	19.5	16.1	52.8	52.8	37.9	35.6	22.9
87.5°	0.0	0.0	1.1	2.3	2.3	3.4	4.6	5.7	6.9	9.2	11.5
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°	2258.5	2258.5	2258.5	2258.5	2258.5	2258.5	2258.5	2258.5	2258.5	2258.5	2258.5
2.5°	2279.1	2265.3	2282.5	2296.3	2299.7	2274.5	2259.6	2237.8	2233.2	2234.4	2228.6
5°	2310.1	2303.2	2315.8	2300.9	2261.9	2188.5	2125.4	2055.4	2017.6	1995.8	1993.5
7.5°	2367.4	2364.0	2350.2	2282.5	2161.0	1998.1	1840.9	1687.2	1592.0	1557.6	1551.9
10°	2452.3	2445.4	2389.2	2228.6	1969.4	1656.3	1392.5	1172.2	1038.0	999.0	950.9
12.5°	2549.8	2536.0	2413.3	2112.8	1680.4	1246.8	917.6	671.0	555.2	520.7	520.7
15°	2643.8	2614.0	2399.5	1921.2	1324.8	810.9	512.7	387.7	352.1	343.0	343.0
17.5°	2740.2	2682.8	2345.6	1659.7	915.3	479.4	341.8	317.7	313.1	314.3	315.4
20°	2830.8	2741.3	2250.4	1345.4	583.8	334.9	306.3	300.5	298.2	300.5	299.4
22.5°	2929.5	2795.3	2105.9	1002.5	379.7	301.7	291.3	286.8	284.5	287.9	287.9
25°	3026.9	2834.3	1914.4	674.4	301.7	281.0	275.3	270.7	268.4	269.5	269.5
27.5°	3077.4	2819.3	1663.2	430.1	270.7	260.4	254.6	248.9	245.5	244.3	245.5
30°	3111.8	2773.5	1355.8	306.3	245.5	232.8	227.1	222.5	213.3	207.6	209.9
32.5°	3165.7	2727.6	1022.0	256.9	224.8	205.3	196.1	184.7	172.1	166.3	166.3
35°	3230.0	2664.5	716.9	231.7	203.0	182.4	165.2	145.7	130.8	126.2	126.2
37.5°	3314.8	2604.9	477.2	214.5	184.7	162.9	138.8	115.8	99.8	97.5	96.3
40°	3442.2	2554.4	336.1	201.9	168.6	142.2	113.6	89.5	78.0	74.6	74.6
42.5°	3607.3	2502.8	266.1	189.3	154.8	122.7	90.6	71.1	61.9	59.6	58.5
45°	3811.5	2442.0	231.7	177.8	141.1	102.1	72.3	59.6	52.8	50.5	50.5
47.5°	4032.9	2359.4	215.6	162.9	125.0	82.6	60.8	51.6	48.2	47.0	45.9
50°	4250.8	2248.1	201.9	149.1	106.7	67.7	52.8	47.0	44.7	43.6	43.6
52.5°	4441.2	2118.5	184.7	133.1	87.2	58.5	47.0	43.6	41.3	39.0	37.9
55°	4604.1	1977.4	162.9	114.7	71.1	51.6	43.6	40.1	37.9	35.6	34.4
57.5°	4814.0	1897.1	130.8	92.9	58.5	45.9	40.1	36.7	34.4	31.0	31.0
60°	5046.8	1838.7	97.5	73.4	50.5	42.4	36.7	33.3	31.0	27.5	27.5
62.5°	5233.8	1751.5	76.8	59.6	43.6	37.9	33.3	29.8	27.5	24.1	24.1
65°	5304.9	1571.4	63.1	47.0	35.6	33.3	29.8	27.5	24.1	20.6	20.6
67.5°	4983.7	1211.2	52.8	37.9	29.8	28.7	26.4	25.2	20.6	18.4	17.2
70°	3946.8	738.7	43.6	31.0	25.2	24.1	24.1	21.8	18.4	17.2	16.1
72.5°	2704.6	380.8	35.6	25.2	21.8	21.8	20.6	19.5	17.2	16.1	16.1
75°	1405.1	127.3	27.5	19.5	17.2	18.4	18.4	17.2	16.1	16.1	14.9
77.5°	402.6	57.4	20.6	14.9	13.8	13.8	14.9	14.9	14.9	13.8	13.8
80°	104.4	33.3	14.9	11.5	11.5	11.5	11.5	12.6	13.8	12.6	12.6
82.5°	42.4	18.4	10.3	9.2	9.2	9.2	9.2	10.3	11.5	11.5	11.5
85°	26.4	9.2	8.0	8.0	8.0	6.9	6.9	8.0	8.0	9.2	9.2
87.5°	16.1	6.9	6.9	6.9	6.9	5.7	5.7	5.7	5.7	5.7	5.7
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)