

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P194109

Luminaire Tested: **GLEON-AF-01-LED-E1-T4W-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-T4W-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5050 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

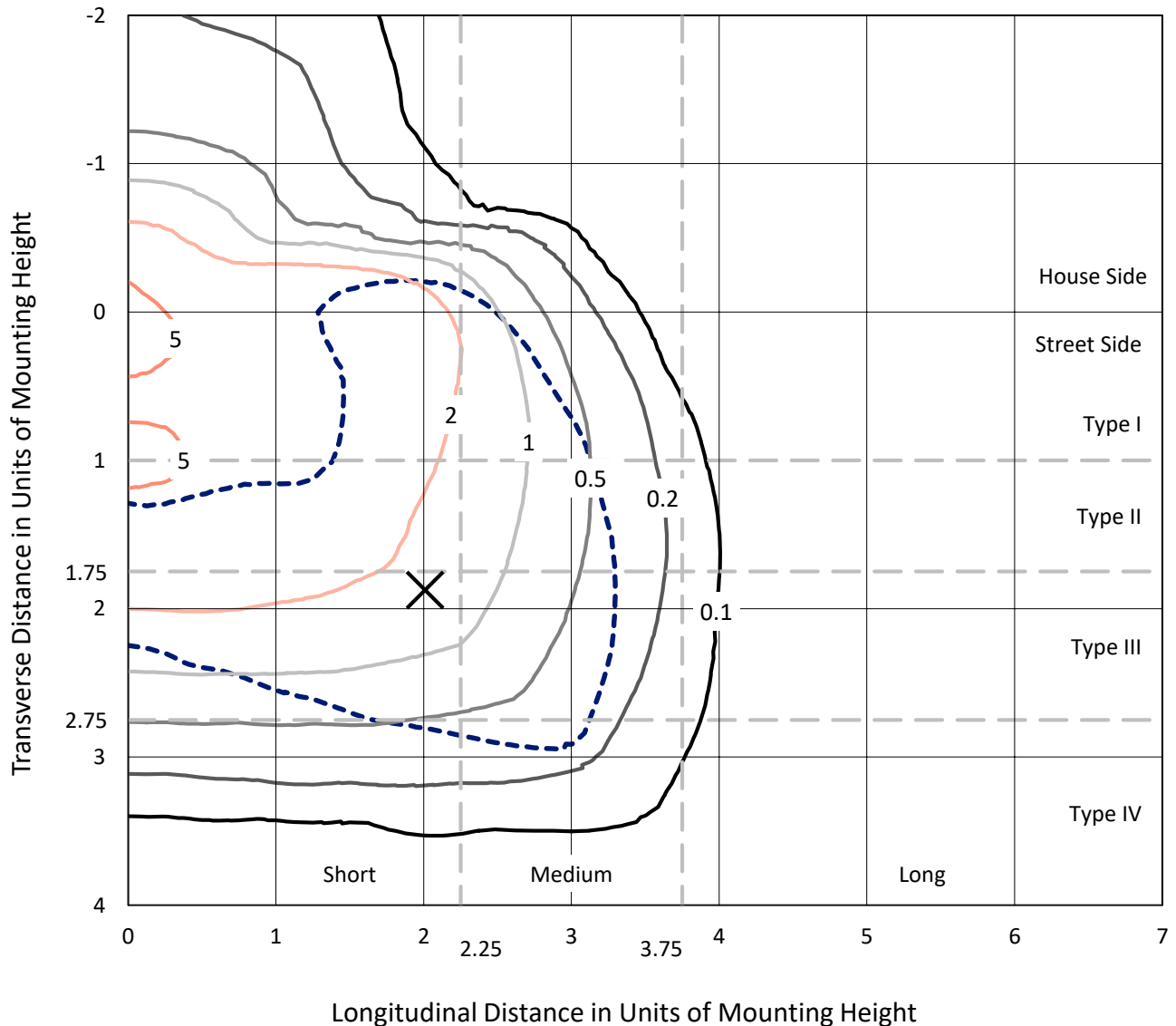
Input Watts (W): 59
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

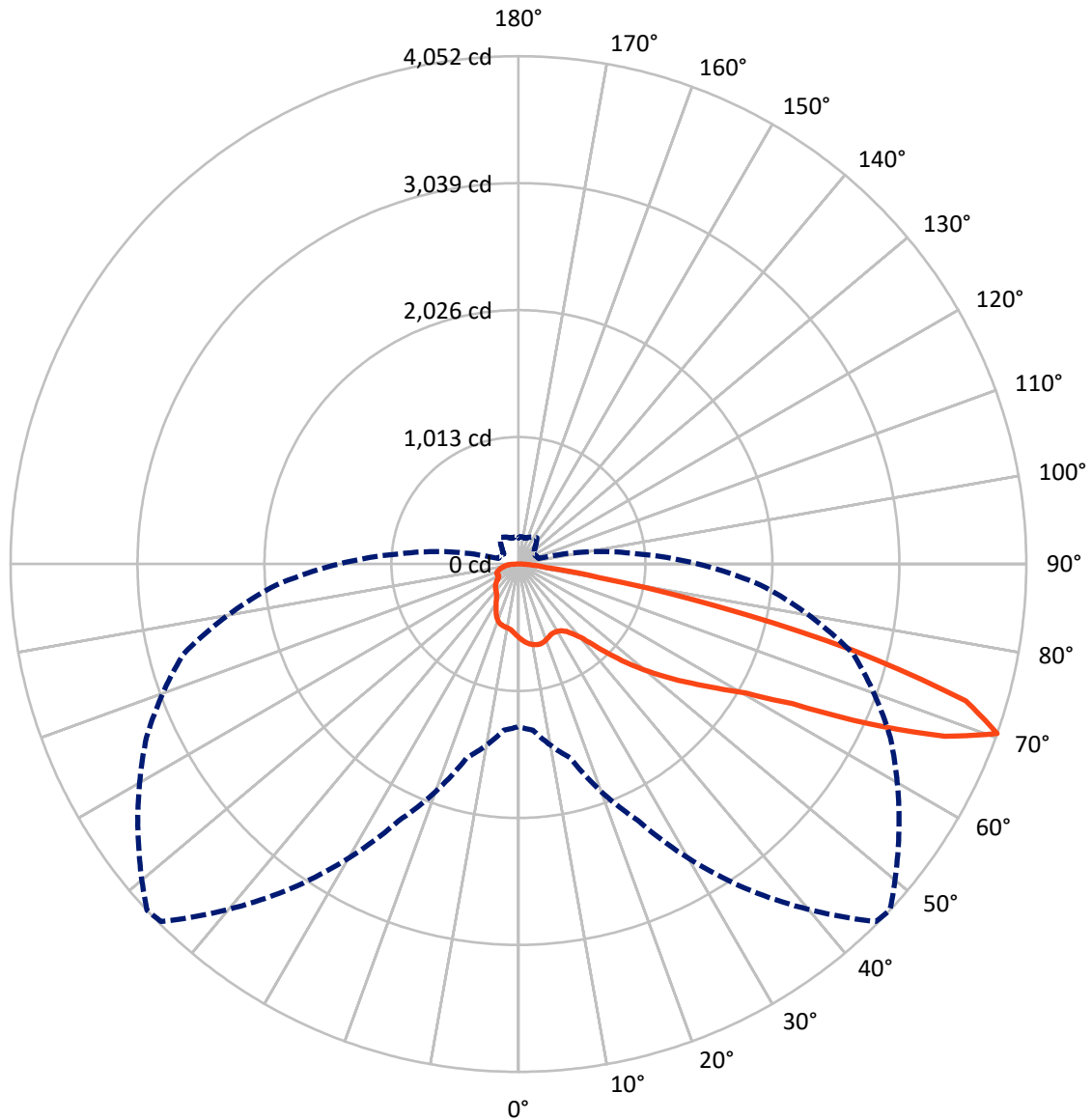
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1053.5	0.0	1053.5
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	3996.5	0.0	3996.5
	% Fixture	79.1	0.0	79.1
Total	Lumens	5050.0	0.0	5050.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	1.1
10°-20°	164.7	3.3
20°-30°	243.2	4.8
30°-40°	353.5	7.0
40°-50°	636.3	12.6
50°-60°	1102.2	21.8
60°-70°	1573.2	31.2
70°-80°	807.6	16.0
80°-90°	113.1	2.2
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°	5050.0	100.0
0°-180°	5050.0	100.0

Coefficient of Utilization



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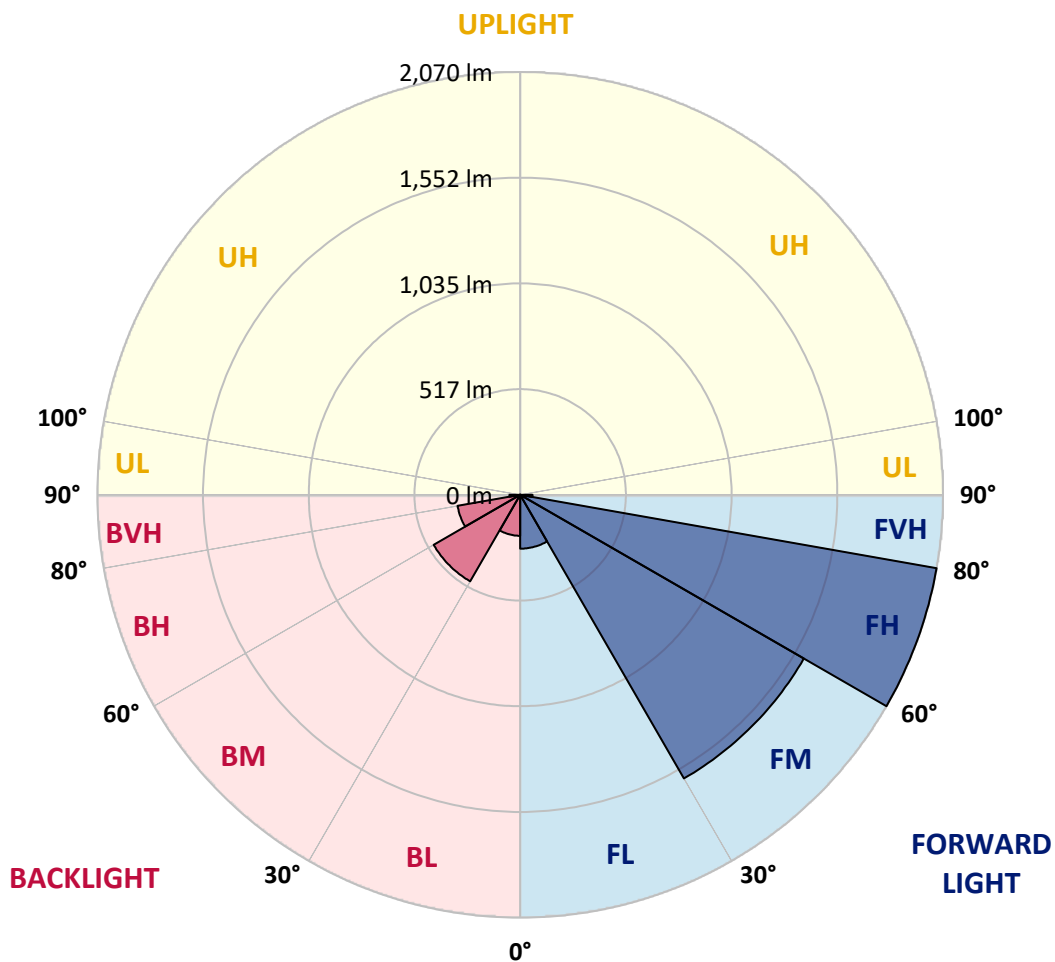
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	263.5	5.2			
FM	(30°-60°)	1603.0	31.7			
FH	(60°-80°)	2069.6	41.0			G2/5000
FVH	(80°-90°)	60.3	1.2			G1/100
BL	(0°-30°)	200.6	4.0	B1/500		
BM	(30°-60°)	489.0	9.7	B1/1000		
BH	(60°-80°)	311.2	6.2	B1/500		G1/500
BVH	(80°-90°)	52.7	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
2.5°	620.4	619.1	618.6	617.7	616.4	610.3	609.1	604.6	598.5	592.1	585.5
5°	661.1	660.9	658.2	653.3	645.4	631.9	628.7	617.9	603.4	589.4	575.4
7.5°	697.0	694.8	689.6	679.8	666.1	647.6	643.2	628.2	608.3	589.2	570.2
10°	723.3	722.1	710.8	697.3	679.3	658.9	653.8	637.1	615.2	590.9	567.3
12.5°	738.3	735.8	722.8	706.6	685.2	665.3	660.2	643.2	618.6	590.9	563.1
15°	737.3	735.6	722.6	704.9	683.2	665.8	661.1	644.2	617.9	588.4	557.7
17.5°	717.6	718.4	707.3	689.9	672.2	658.9	654.7	639.0	613.0	583.5	551.3
20°	683.2	686.7	679.3	663.8	654.0	644.9	642.2	629.0	605.4	576.4	544.4
22.5°	648.9	652.0	649.1	636.1	634.6	629.2	627.7	618.1	598.7	572.0	540.3
25°	623.5	626.5	626.0	614.7	619.1	618.9	617.7	613.0	597.3	572.0	541.0
27.5°	616.7	617.7	616.7	606.3	612.5	617.4	616.4	615.7	601.7	579.1	550.3
30°	640.3	638.8	631.2	610.3	615.9	622.8	621.8	622.3	614.9	597.8	571.2
32.5°	734.4	727.7	703.6	644.9	629.9	633.6	634.1	642.2	643.4	626.5	603.6
35°	875.1	867.8	836.6	737.8	673.4	660.6	660.6	672.9	680.3	667.8	654.0
37.5°	1024.3	1016.2	999.4	866.5	764.8	707.6	706.3	714.9	725.5	728.5	731.9
40°	1193.8	1185.2	1189.8	1011.0	892.3	788.9	771.4	765.3	793.8	812.7	840.2
42.5°	1379.3	1375.3	1377.1	1171.9	1037.5	910.5	885.7	854.0	888.4	922.1	979.8
45°	1551.0	1554.4	1552.7	1344.1	1199.2	1058.9	1032.6	971.2	1004.8	1062.6	1156.7
47.5°	1701.4	1687.1	1709.2	1532.3	1380.3	1225.0	1192.6	1110.2	1144.4	1215.6	1374.8
50°	1883.9	1881.9	1849.5	1783.4	1599.2	1391.8	1349.3	1254.0	1307.0	1406.1	1649.8
52.5°	2075.8	2040.2	2010.4	1978.7	1831.3	1562.8	1510.7	1397.2	1498.2	1622.7	1984.9
55°	2115.1	2099.1	2136.0	2189.3	2055.1	1740.4	1679.7	1576.8	1713.4	1870.4	2371.3
57.5°	2199.1	2198.9	2275.0	2370.1	2285.6	1928.9	1867.7	1793.7	1955.4	2154.2	2781.6
60°	2255.9	2271.8	2413.4	2597.9	2511.9	2146.5	2090.3	2044.1	2230.6	2471.3	3163.9
62.5°	2285.6	2307.2	2500.3	2690.2	2831.8	2508.9	2452.7	2386.1	2594.7	2819.2	3387.5
65°	2162.0	2204.5	2486.8	2770.1	3111.8	3096.4	3071.1	2954.1	3049.9	3094.1	3306.7
67.5°	1820.0	1863.5	2192.2	2695.6	3311.8	3662.9	3668.3	3468.6	3330.0	3117.7	2780.2
70°	1296.7	1330.9	1602.8	2260.1	3159.5	4033.2	4051.6	3705.7	3274.2	2764.9	1942.4
72.5°	615.7	636.6	894.0	1470.9	2507.2	3695.3	3731.0	3403.0	2784.1	2047.0	1059.6
75°	226.3	232.7	302.2	625.8	1454.2	2725.1	2767.1	2439.4	1845.6	1019.1	403.7
77.5°	135.6	139.8	169.5	264.1	572.0	1557.6	1619.8	1326.7	806.6	379.3	198.5
80°	94.8	97.8	121.6	164.4	270.3	593.6	648.9	541.5	321.4	240.0	144.5
82.5°	64.1	65.6	85.5	111.0	179.6	212.0	228.7	240.8	216.7	178.6	91.6
85°	42.0	43.5	58.0	73.2	114.2	109.6	112.0	141.8	158.2	121.4	50.9
87.5°	24.1	25.1	34.9	39.1	56.0	46.4	46.9	74.7	101.2	81.8	31.0
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°	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
2.5°	583.7	580.6	573.4	569.0	564.8	563.8	562.1	561.9	561.6	561.6	560.9
5°	570.7	565.3	554.3	548.1	543.0	542.5	542.2	543.5	543.9	544.4	543.7
7.5°	562.4	555.0	541.2	532.4	526.3	524.8	527.2	532.9	536.6	538.0	537.3
10°	557.2	548.1	532.2	522.6	517.4	516.7	519.9	526.5	534.1	537.1	536.8
12.5°	551.3	541.0	524.0	514.0	511.0	512.5	516.7	522.8	530.7	535.3	535.6
15°	545.4	533.4	515.9	507.1	505.9	507.8	511.8	516.4	522.6	527.2	527.7
17.5°	538.3	525.8	508.3	499.2	498.2	499.2	499.5	501.9	505.9	510.3	511.5
20°	530.7	517.9	499.7	490.6	486.2	482.3	477.9	478.3	479.6	484.0	485.0
22.5°	525.3	512.5	493.1	480.6	468.8	457.0	448.1	446.9	447.4	451.1	452.3
25°	525.8	512.3	491.4	469.7	444.0	425.0	413.2	411.3	411.0	413.7	415.5
27.5°	535.3	521.8	497.8	458.7	416.9	388.9	376.4	374.9	372.9	373.7	375.7
30°	556.7	544.2	513.2	447.4	387.7	353.5	340.5	339.0	336.3	335.1	336.6
32.5°	591.6	581.3	535.8	436.6	358.5	323.3	310.1	306.9	305.1	303.7	304.9
35°	649.6	645.2	566.1	424.8	332.7	300.0	287.9	283.0	280.6	283.3	285.2
37.5°	740.5	742.9	605.6	406.4	312.8	284.5	274.4	268.8	265.1	267.3	269.5
40°	869.2	871.0	649.3	380.3	295.6	275.4	264.6	259.4	254.3	250.4	250.1
42.5°	1038.3	1020.8	692.3	352.1	275.7	269.8	257.7	251.3	243.5	232.7	230.5
45°	1238.7	1177.6	725.0	319.6	253.3	262.9	250.1	241.3	229.0	217.2	216.0
47.5°	1469.7	1345.9	741.0	286.0	232.4	252.8	240.8	226.8	211.3	205.4	204.7
50°	1751.7	1545.6	748.6	253.3	214.2	239.5	227.3	210.8	197.8	196.5	195.8
52.5°	2072.8	1785.9	751.1	226.5	199.3	222.3	216.2	200.2	189.9	190.9	190.9
55°	2408.9	2034.0	717.6	207.1	185.5	204.7	208.8	196.1	187.5	191.4	192.9
57.5°	2717.5	2253.9	612.5	192.1	172.5	191.1	206.1	200.0	194.1	210.1	211.0
60°	2954.4	2383.9	457.5	178.6	162.9	186.5	213.3	215.0	216.4	254.5	259.7
62.5°	3004.0	2340.6	314.5	168.0	158.5	190.4	226.3	226.5	224.8	251.3	254.5
65°	2776.2	2067.2	228.7	162.2	154.8	197.5	237.3	232.2	220.9	241.0	235.1
67.5°	2204.8	1557.4	190.4	157.7	149.4	197.0	249.1	237.3	218.7	236.1	226.5
70°	1431.1	941.7	169.5	154.0	143.0	187.7	256.0	236.8	212.3	219.6	208.3
72.5°	698.2	421.1	155.5	148.6	136.4	174.7	255.8	232.4	205.6	205.1	199.0
75°	273.2	192.9	142.7	140.5	125.1	159.9	248.9	226.0	197.8	189.9	187.7
77.5°	159.9	137.6	126.5	128.5	111.5	145.2	238.8	215.0	187.0	177.6	175.2
80°	116.5	102.9	107.9	111.0	95.3	130.5	225.3	201.5	174.9	179.6	176.2
82.5°	74.7	66.3	87.5	90.7	79.4	115.5	210.6	187.2	158.0	143.5	140.0
85°	38.1	42.0	65.1	69.0	61.2	94.8	192.6	168.3	138.8	119.4	121.4
87.5°	21.4	28.7	41.5	46.4	43.2	73.0	156.3	138.8	113.3	92.1	81.1
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)