

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: P269039

Luminaire Tested: **GLEON-AF-01-LED-E1-T4W-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269039
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-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4344.1 lumens
Efficiency: N/A
Efficacy: 98.7 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 - G1

Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): 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

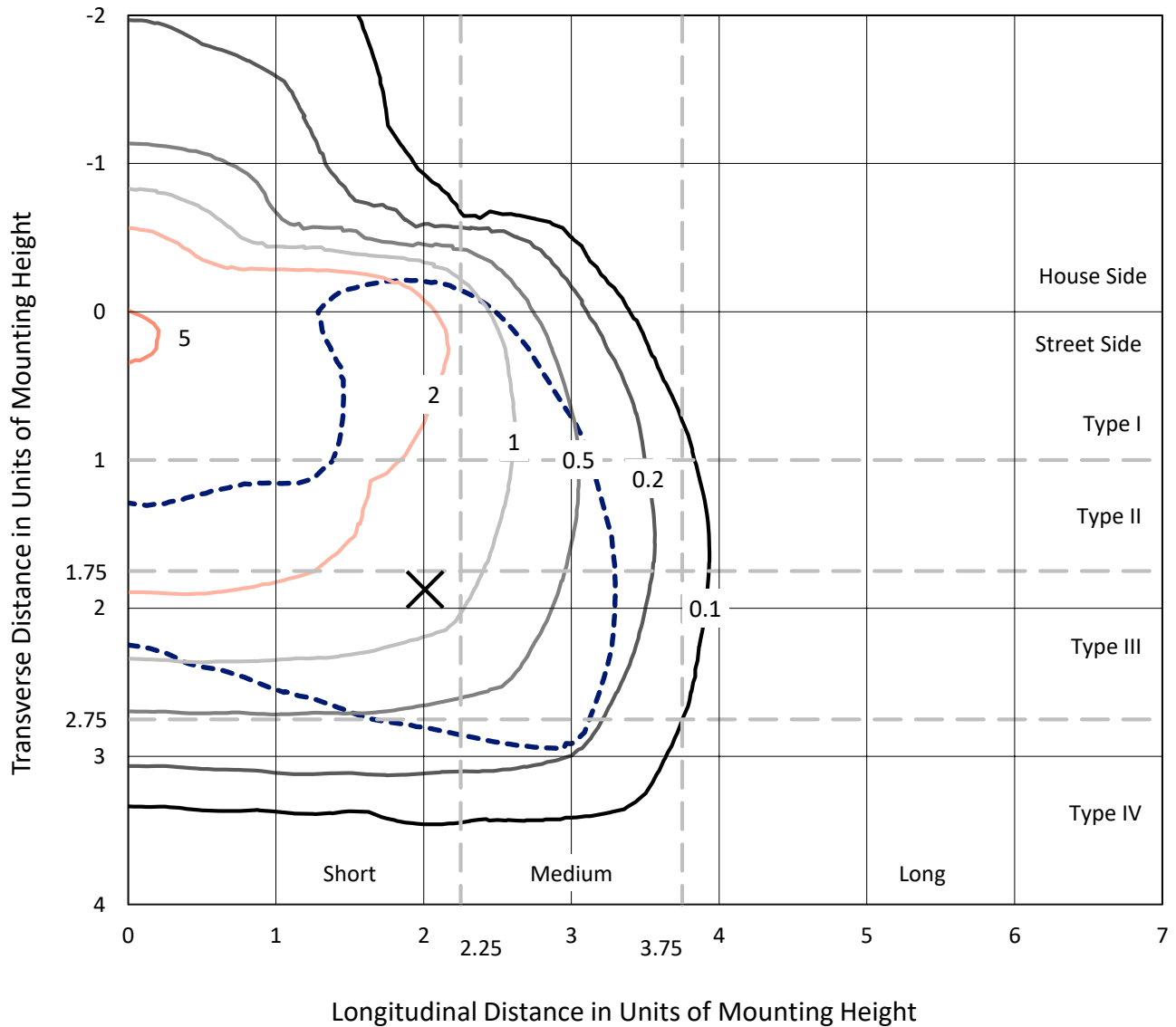


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

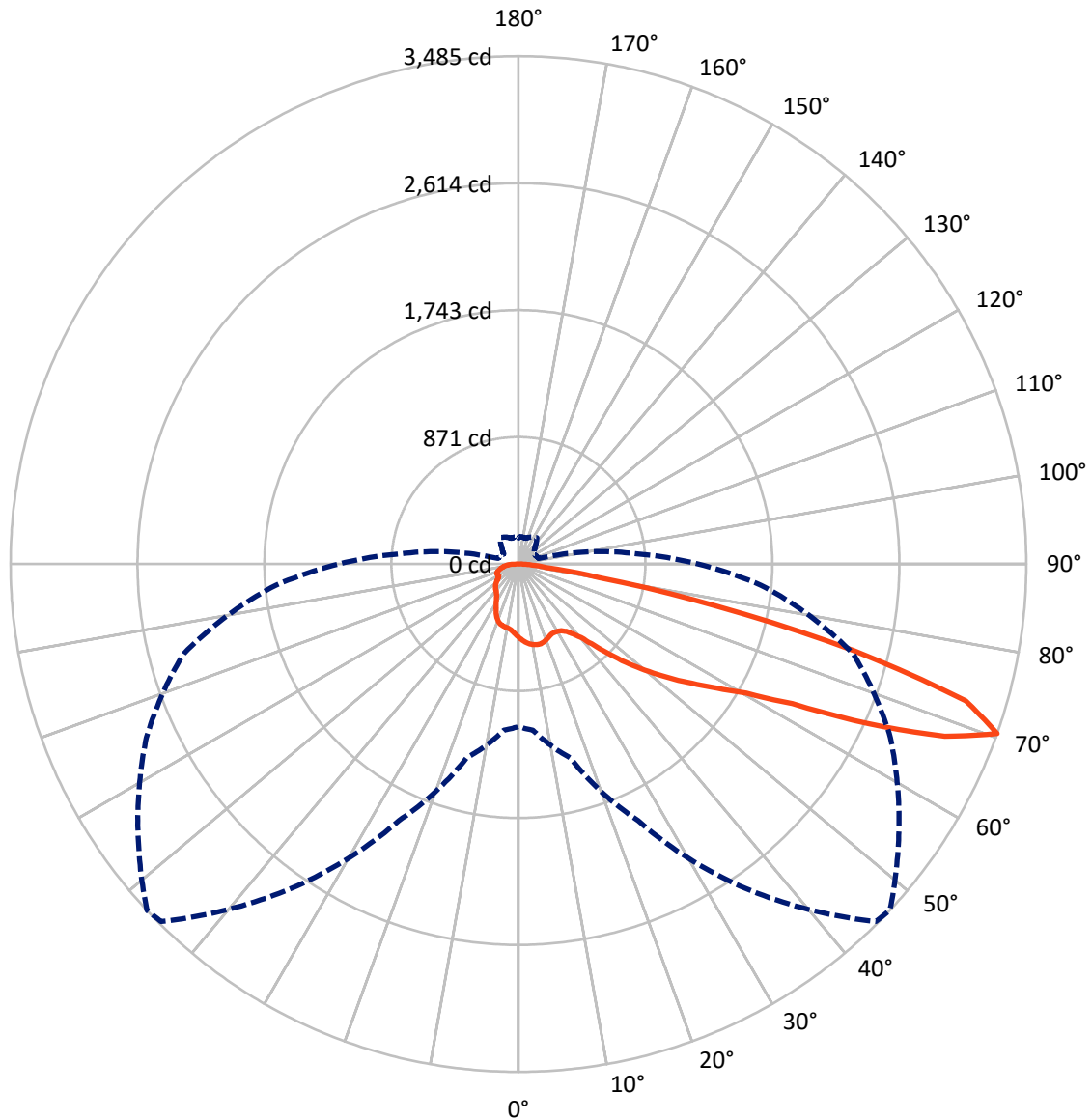


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - Semi-Cutoff

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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	906.3	0.0	906.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	3437.8	0.0	3437.8
	% Fixture	79.1	0.0	79.1
Total	Lumens	4344.1	0.0	4344.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.3	1.1
10°-20°	141.7	3.3
20°-30°	209.2	4.8
30°-40°	304.1	7.0
40°-50°	547.3	12.6
50°-60°	948.1	21.8
60°-70°	1353.3	31.2
70°-80°	694.7	16.0
80°-90°	97.3	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°	4344.1	100.0
0°-180°	4344.1	100.0



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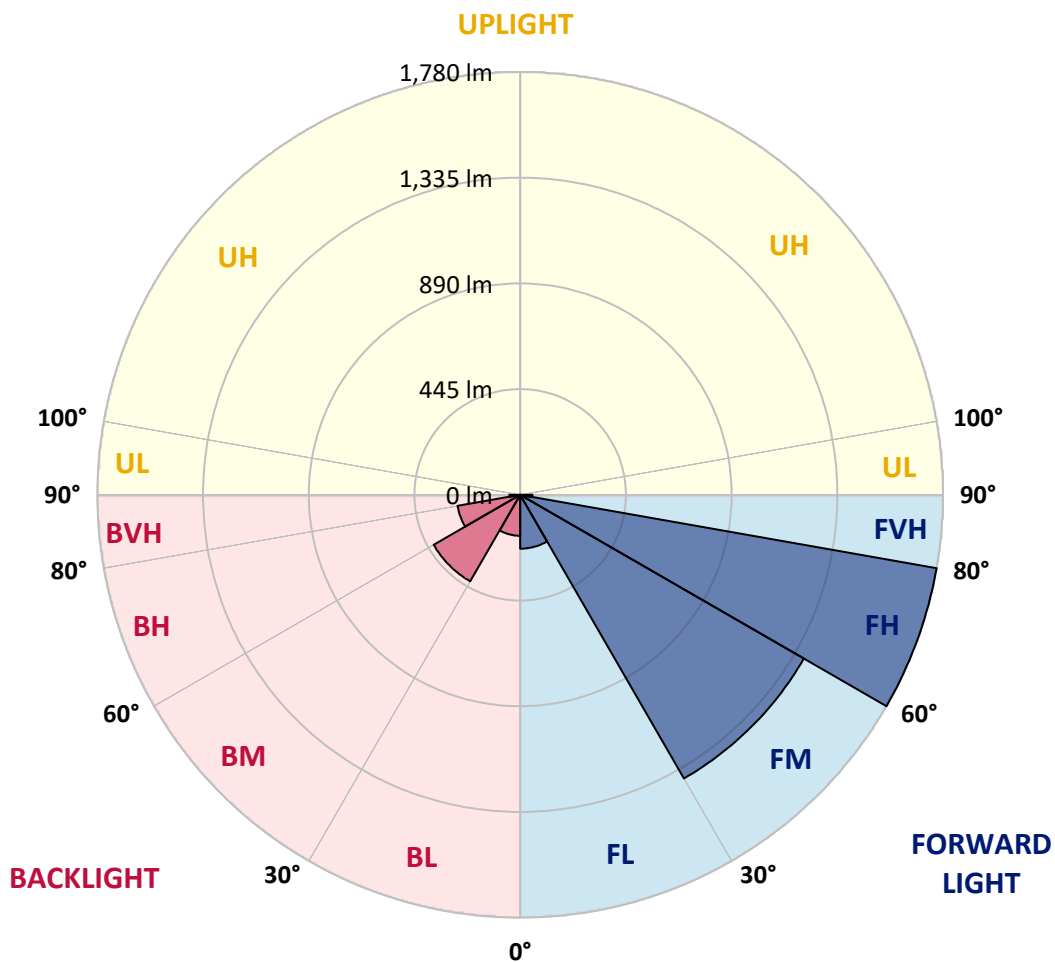
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	226.7	5.2			
FM	(30°-60°)	1378.9	31.7			
FH	(60°-80°)	1780.3	41.0			G1/1800
FVH	(80°-90°)	51.9	1.2			G1/100
BL	(0°-30°)	172.6	4.0	B1/500		
BM	(30°-60°)	420.6	9.7	B1/1000		
BH	(60°-80°)	267.7	6.2	B1/500		G1/500
BVH	(80°-90°)	45.4	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0
2.5°	533.7	532.5	532.2	531.3	530.3	525.0	523.9	520.1	514.8	509.2	503.6
5°	568.6	568.4	566.2	562.0	555.2	543.6	540.8	531.4	519.0	507.1	495.0
7.5°	599.6	597.6	593.2	584.7	572.9	557.0	553.3	540.4	523.3	506.9	490.6
10°	622.2	621.1	611.3	599.8	584.3	566.8	562.3	548.0	529.2	508.4	488.0
12.5°	635.1	632.9	621.7	607.9	589.4	572.3	567.9	553.3	532.2	508.4	484.4
15°	634.3	632.8	621.5	606.4	587.8	572.7	568.6	554.2	531.4	506.1	479.8
17.5°	617.3	617.9	608.4	593.4	578.1	566.8	563.1	549.8	527.2	502.0	474.2
20°	587.8	590.6	584.3	571.1	562.6	554.8	552.5	541.0	520.7	495.9	468.3
22.5°	558.1	560.9	558.3	547.2	545.9	541.3	540.1	531.7	515.1	492.0	464.8
25°	536.4	539.0	538.5	528.7	532.5	532.3	531.3	527.2	513.8	492.0	465.3
27.5°	530.4	531.3	530.4	521.6	526.9	531.1	530.3	529.6	517.6	498.1	473.3
30°	550.8	549.5	542.9	525.0	529.8	535.7	534.9	535.3	529.0	514.2	491.4
32.5°	631.7	625.9	605.3	554.8	541.9	545.0	545.5	552.5	553.4	539.0	519.3
35°	752.8	746.4	719.6	634.7	579.2	568.3	568.3	578.9	585.2	574.5	562.6
37.5°	881.1	874.1	859.7	745.5	657.9	608.6	607.7	615.0	624.1	626.6	629.6
40°	1026.9	1019.4	1023.4	869.6	767.6	678.6	663.6	658.3	682.8	699.2	722.7
42.5°	1186.4	1183.1	1184.5	1008.1	892.5	783.2	761.9	734.6	764.2	793.2	842.8
45°	1334.3	1337.1	1335.7	1156.3	1031.6	910.9	888.2	835.5	864.3	914.0	995.1
47.5°	1463.5	1451.2	1470.3	1318.2	1187.3	1053.7	1025.9	955.1	984.5	1045.6	1182.7
50°	1620.5	1618.8	1591.0	1534.1	1375.7	1197.3	1160.7	1078.7	1124.3	1209.5	1419.1
52.5°	1785.7	1755.0	1729.3	1702.1	1575.3	1344.4	1299.5	1201.9	1288.8	1395.8	1707.4
55°	1819.3	1805.7	1837.4	1883.2	1767.9	1497.1	1445.0	1356.4	1473.8	1609.0	2039.8
57.5°	1891.7	1891.6	1957.0	2038.9	1966.1	1659.2	1606.6	1543.0	1682.0	1853.1	2392.7
60°	1940.5	1954.3	2076.1	2234.8	2160.8	1846.5	1798.0	1758.3	1918.7	2125.8	2721.7
62.5°	1966.1	1984.6	2150.8	2314.2	2435.9	2158.2	2109.8	2052.5	2232.0	2425.2	2913.9
65°	1859.9	1896.3	2139.1	2382.8	2676.8	2663.6	2641.7	2541.1	2623.6	2661.6	2844.5
67.5°	1565.6	1603.0	1885.8	2318.9	2848.9	3150.9	3155.4	2983.7	2864.4	2681.9	2391.5
70°	1115.4	1144.8	1378.8	1944.1	2717.8	3469.3	3485.2	3187.6	2816.5	2378.4	1670.8
72.5°	529.6	547.5	769.0	1265.4	2156.7	3178.7	3209.4	2927.2	2394.9	1760.9	911.5
75°	194.7	200.1	260.0	538.3	1250.9	2344.1	2380.2	2098.4	1587.6	876.7	347.3
77.5°	116.7	120.3	145.9	227.2	492.0	1339.9	1393.4	1141.2	693.9	326.4	170.8
80°	81.6	84.1	104.7	141.5	232.5	510.5	558.1	465.9	276.4	206.5	124.2
82.5°	55.2	56.5	73.5	95.5	154.5	182.4	196.8	207.1	186.4	153.6	78.8
85°	36.1	37.4	49.9	63.1	98.3	94.2	96.4	121.9	136.2	104.5	43.7
87.5°	20.8	21.6	30.1	33.5	48.1	40.0	40.3	64.3	87.0	70.3	26.6
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°	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0
2.5°	502.2	499.4	493.3	489.4	485.9	485.1	483.6	483.4	483.1	483.1	482.5
5°	491.0	486.3	476.8	471.5	467.1	466.6	466.4	467.5	467.8	468.3	467.7
7.5°	483.7	477.4	465.6	458.0	452.7	451.4	453.6	458.3	461.5	462.8	462.2
10°	479.3	471.5	457.7	449.5	445.1	444.4	447.1	452.8	459.5	462.0	461.8
12.5°	474.2	465.3	450.8	442.1	439.6	440.9	444.4	449.7	456.5	460.6	460.7
15°	469.2	458.9	443.9	436.1	435.1	436.8	440.2	444.2	449.5	453.6	454.0
17.5°	463.0	452.2	437.2	429.4	428.6	429.4	429.7	431.7	435.1	438.9	440.0
20°	456.5	445.5	429.8	422.1	418.3	414.8	411.1	411.5	412.5	416.4	417.3
22.5°	451.8	440.9	424.2	413.4	403.2	393.1	385.6	384.5	384.8	388.0	389.1
25°	452.2	440.7	422.7	404.1	381.9	365.6	355.5	353.8	353.6	355.9	357.3
27.5°	460.6	449.0	428.2	394.5	358.7	334.6	323.7	322.5	320.9	321.5	323.1
30°	478.8	468.0	441.4	384.8	333.5	304.2	292.8	291.7	289.3	288.3	289.6
32.5°	508.9	500.0	460.9	375.5	308.4	278.1	266.6	263.9	262.5	261.1	262.2
35°	558.7	555.0	486.9	365.4	286.2	258.1	247.8	243.5	241.4	243.7	245.3
37.5°	637.0	639.1	520.9	349.6	269.0	244.7	236.1	231.3	228.0	230.0	231.9
40°	747.7	749.1	558.6	327.2	254.2	237.0	227.6	223.1	218.7	215.4	215.1
42.5°	893.2	878.2	595.5	302.9	237.2	232.0	221.7	216.2	209.5	200.1	198.3
45°	1065.6	1013.0	623.7	274.9	217.8	226.2	215.1	207.6	197.0	186.8	185.8
47.5°	1264.3	1157.7	637.3	246.0	200.0	217.5	207.1	195.0	181.7	176.6	176.1
50°	1506.8	1329.5	643.9	217.8	184.3	206.0	195.6	181.4	170.0	169.2	168.4
52.5°	1783.0	1536.2	646.2	194.8	171.3	191.2	185.9	172.2	163.3	164.2	164.2
55°	2072.2	1749.7	617.3	178.1	159.5	176.1	179.7	168.6	161.2	164.6	165.8
57.5°	2337.6	1938.8	526.9	165.3	148.4	164.4	177.3	172.0	166.9	180.6	181.5
60°	2541.3	2050.7	393.5	153.6	140.1	160.3	183.4	185.0	186.2	218.9	223.4
62.5°	2584.1	2013.5	270.5	144.5	136.4	163.9	194.7	194.8	193.3	216.2	218.9
65°	2388.1	1778.3	196.8	139.4	133.2	169.9	204.2	199.8	190.0	207.2	202.3
67.5°	1896.5	1339.7	163.9	135.6	128.5	169.5	214.2	204.2	188.0	203.0	194.8
70°	1231.0	810.0	145.9	132.5	123.0	161.4	220.3	203.7	182.5	189.0	179.2
72.5°	600.6	362.2	133.8	127.9	117.3	150.2	220.1	200.0	176.8	176.4	171.1
75°	234.9	165.8	122.8	120.9	107.5	137.6	214.1	194.5	170.0	163.3	161.4
77.5°	137.6	118.3	108.9	110.5	95.9	125.0	205.4	185.0	160.8	152.8	150.6
80°	100.3	88.6	92.7	95.5	81.9	112.2	193.9	173.4	150.5	154.5	151.5
82.5°	64.3	57.0	75.3	78.1	68.4	99.4	181.1	161.1	136.0	123.4	120.5
85°	32.8	36.1	56.1	59.4	52.6	81.6	165.6	144.7	119.5	102.6	104.5
87.5°	18.3	24.8	35.8	40.0	37.2	62.8	134.3	119.5	97.5	79.2	69.8
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)