

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: P192239

Luminaire Tested: **GLEON-AF-01-LED-E1-T3-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5037 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full 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

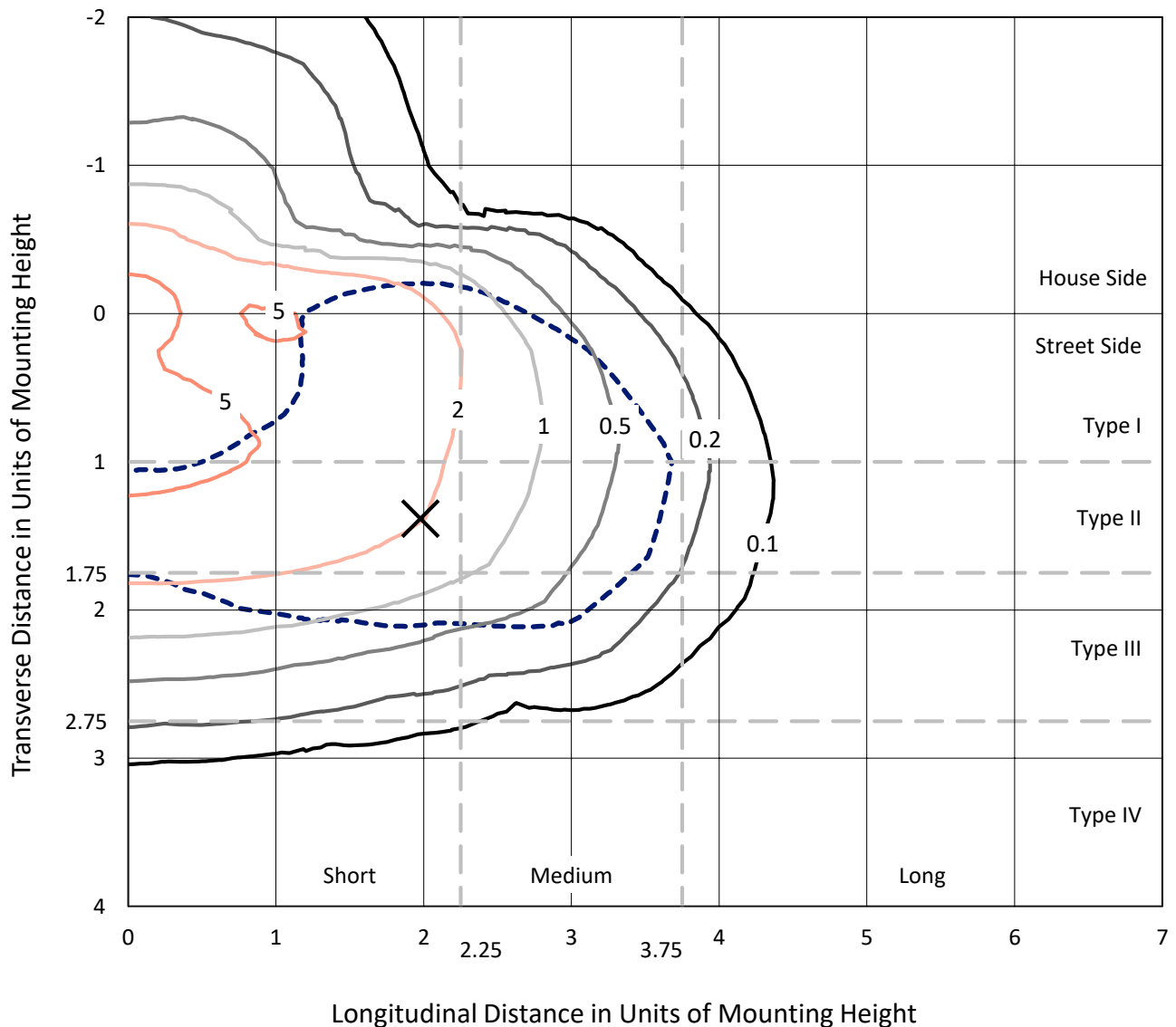


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Iso-Footcandle Lines of Horizontal Illumination

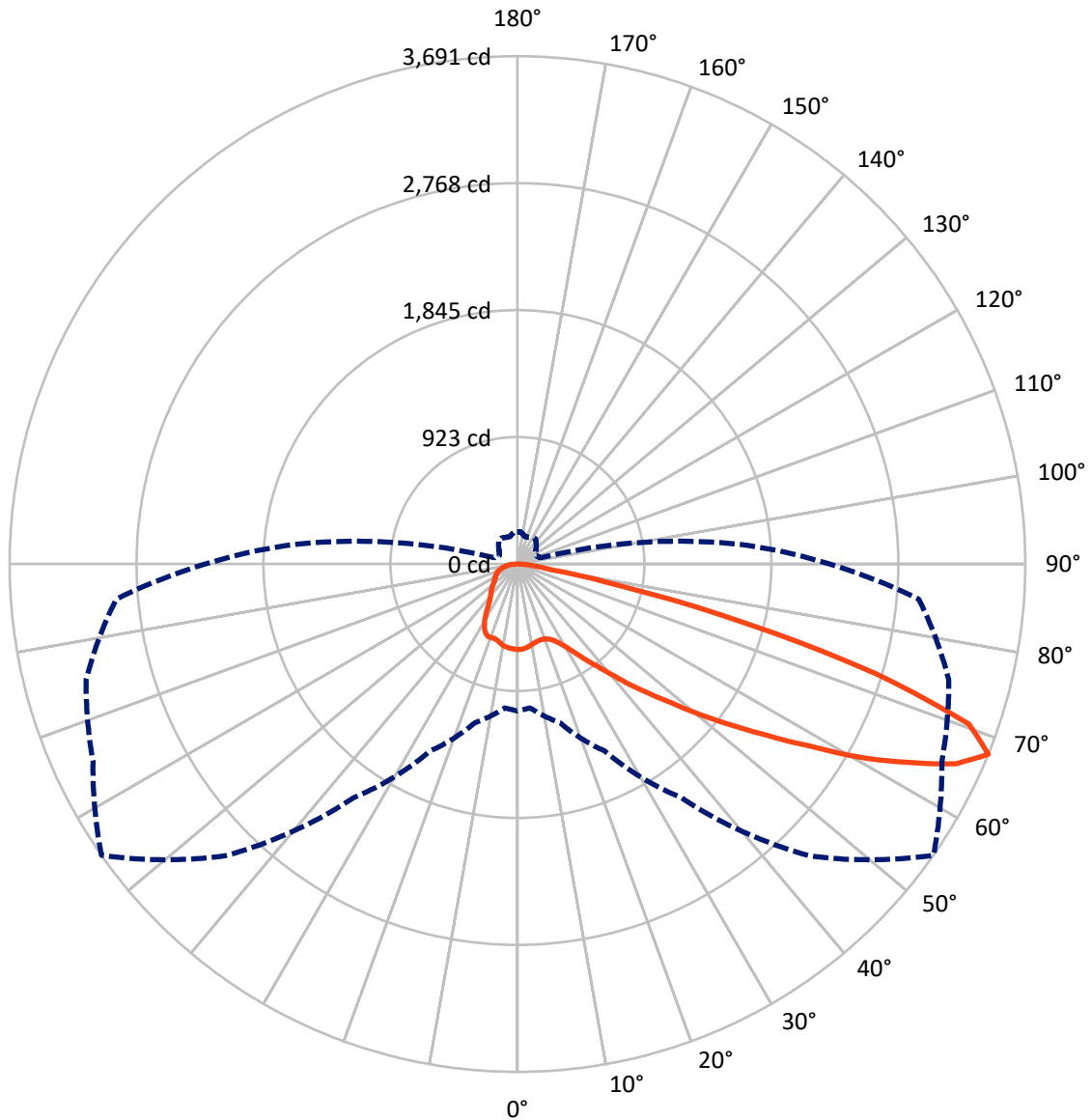
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1088.1	0.0	1088.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	3948.9	0.0	3948.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	5037.0	0.0	5037.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.0	1.2
10°-20°	164.2	3.3
20°-30°	275.0	5.5
30°-40°	452.3	9.0
40°-50°	761.3	15.1
50°-60°	1198.3	23.8
60°-70°	1430.0	28.4
70°-80°	614.1	12.2
80°-90°	83.7	1.7
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°	5037.0	100.0
0°-180°	5037.0	100.0



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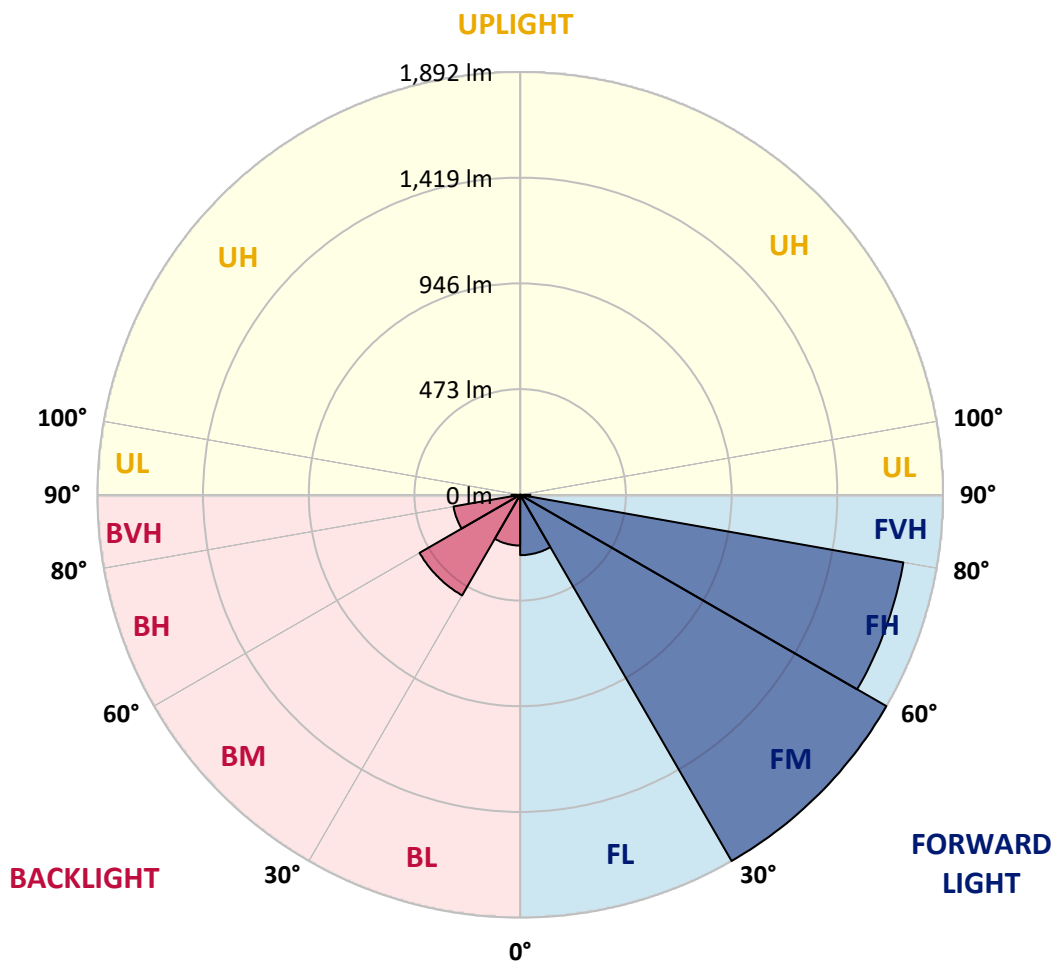
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	270.0	5.4			
FM	(30°-60°)	1892.3	37.6			
FH	(60°-80°)	1741.3	34.6			G1/1800
FVH	(80°-90°)	45.3	0.9			G1/100
BL	(0°-30°)	227.2	4.5	B1/500		
BM	(30°-60°)	519.7	10.3	B1/1000		
BH	(60°-80°)	302.8	6.0	B1/500		G1/500
BVH	(80°-90°)	38.4	0.8			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1
2.5°	615.8	616.0	616.5	618.4	620.1	619.7	619.9	618.9	618.7	617.2	618.7
5°	608.0	608.7	609.0	612.1	614.1	614.5	613.8	612.6	611.1	609.7	610.4
7.5°	590.2	592.2	592.4	596.8	600.0	604.1	604.3	604.6	603.8	602.9	604.3
10°	579.0	579.5	579.3	582.4	584.9	589.5	592.2	596.8	598.7	599.2	600.2
12.5°	578.3	577.8	577.1	577.1	576.4	578.3	583.2	589.7	594.4	595.8	597.0
15°	586.1	585.8	583.4	579.8	575.1	573.7	577.8	585.1	591.2	594.4	595.6
17.5°	603.6	602.1	598.2	590.0	580.0	576.1	576.6	582.7	589.7	593.9	595.1
20°	635.7	635.7	627.4	611.9	594.1	584.9	580.5	584.1	590.9	596.5	598.2
22.5°	691.2	691.7	677.8	652.3	622.3	602.6	591.7	590.9	599.0	605.3	607.2
25°	769.8	767.8	748.4	711.9	666.4	633.8	614.8	610.4	617.2	624.3	626.7
27.5°	861.2	854.2	831.1	787.0	728.2	680.5	651.3	644.2	650.8	658.8	661.3
30°	951.7	944.4	917.0	868.8	803.3	743.0	701.2	689.7	699.0	710.4	711.9
32.5°	1042.3	1042.3	1011.6	955.4	884.1	817.7	767.6	754.0	769.3	783.1	786.3
35°	1150.5	1151.0	1121.3	1053.7	977.0	906.7	851.5	841.5	864.6	874.4	881.9
37.5°	1283.6	1286.3	1248.1	1166.3	1082.4	1008.4	942.7	929.1	952.2	978.8	1003.1
40°	1427.4	1430.8	1388.7	1288.0	1204.0	1126.7	1055.6	1031.1	1069.5	1120.1	1151.5
42.5°	1564.6	1582.1	1541.5	1437.8	1347.6	1267.5	1195.5	1159.8	1207.9	1284.3	1311.6
45°	1762.9	1775.5	1704.7	1610.8	1525.9	1436.4	1341.0	1303.3	1370.7	1467.0	1472.6
47.5°	1895.0	1885.5	1849.5	1791.1	1737.3	1653.6	1510.1	1468.7	1558.3	1671.6	1640.3
50°	1965.3	1968.2	1963.3	1966.7	1968.7	1916.1	1717.4	1660.7	1767.5	1904.5	1832.2
52.5°	2031.0	2011.5	2027.6	2107.4	2203.7	2184.2	1942.9	1883.8	1991.8	2162.8	2035.1
55°	2029.5	1999.8	2052.1	2193.0	2402.0	2424.4	2196.2	2128.0	2229.0	2439.9	2250.2
57.5°	1957.7	1959.2	2039.7	2224.1	2540.2	2650.1	2490.1	2387.9	2480.6	2720.7	2446.5
60°	1859.0	1872.4	1988.4	2219.0	2650.9	2835.3	2850.6	2667.9	2727.0	2975.9	2609.0
62.5°	1699.6	1713.7	1873.8	2166.0	2634.1	3013.6	3176.6	2985.6	2984.7	3130.6	2656.7
65°	1448.3	1444.2	1612.3	1967.7	2493.2	3145.5	3500.4	3260.3	3178.8	3133.1	2560.9
67.5°	1068.0	1049.5	1193.8	1498.7	2072.3	2997.8	3690.9	3403.4	3245.0	2927.0	2267.9
70°	554.2	535.7	652.5	875.1	1362.9	2339.7	3480.0	3329.4	3098.8	2453.6	1776.7
72.5°	237.0	233.8	281.2	383.9	659.3	1349.5	2728.7	2881.8	2658.9	1828.1	1221.6
75°	159.4	158.4	176.1	209.2	296.6	547.6	1707.6	2045.6	1945.3	1133.5	687.0
77.5°	125.1	123.8	134.3	150.4	192.2	216.0	757.8	1098.2	1016.5	493.4	300.7
80°	97.8	96.8	103.4	112.2	138.2	136.2	249.4	436.9	338.2	189.0	146.2
82.5°	77.1	77.1	82.5	82.7	98.0	92.9	130.2	192.4	168.8	110.2	89.5
85°	70.6	70.6	76.1	61.8	64.0	58.6	80.8	114.1	107.0	45.3	38.9
87.5°	35.5	34.5	64.0	54.7	34.8	31.1	39.4	55.2	59.4	25.1	19.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1
2.5°	618.2	618.0	618.4	618.7	620.6	623.3	624.5	626.2	627.2	626.7
5°	610.9	611.4	613.3	614.8	618.2	622.6	625.0	627.0	628.7	627.9
7.5°	604.8	606.0	609.0	610.2	612.1	613.3	613.1	613.8	615.3	613.6
10°	601.4	602.9	605.1	603.4	598.7	592.2	586.1	582.9	583.9	582.7
12.5°	598.0	600.0	598.2	590.2	577.3	568.8	564.2	564.7	566.9	567.4
15°	596.1	596.8	589.5	574.4	561.3	560.1	562.5	562.0	562.2	562.2
17.5°	596.1	594.1	580.5	565.4	559.8	557.6	550.1	540.6	536.5	535.0
20°	599.2	594.1	577.6	567.6	555.4	536.7	516.7	499.2	491.4	489.3
22.5°	608.7	600.0	585.8	568.6	534.0	502.6	471.0	450.1	436.0	433.5
25°	627.9	618.2	602.1	555.7	500.0	455.2	419.2	395.8	381.7	379.8
27.5°	661.5	655.2	610.9	527.2	454.7	406.8	373.4	355.4	345.0	344.3
30°	712.1	708.9	606.5	485.1	399.0	359.8	343.8	333.3	325.5	325.3
32.5°	792.9	767.3	592.2	433.8	348.1	326.5	319.9	313.6	307.5	307.5
35°	896.8	814.5	564.9	378.8	317.2	308.0	299.7	289.8	281.7	281.2
37.5°	1018.9	843.7	516.0	334.5	302.7	295.6	283.4	268.6	254.5	252.0
40°	1142.2	852.5	447.2	307.3	293.4	283.2	268.3	250.8	237.2	236.5
42.5°	1255.4	835.7	374.2	288.5	284.2	270.5	255.0	239.4	228.7	228.4
45°	1350.3	792.1	312.9	270.8	274.4	259.1	245.2	232.6	224.3	222.6
47.5°	1439.5	730.6	269.8	252.0	264.7	252.8	241.1	229.2	221.1	219.9
50°	1543.2	664.2	239.6	233.8	256.2	250.6	244.5	232.1	218.7	217.3
52.5°	1668.7	606.8	216.0	217.7	249.6	253.5	253.3	240.4	217.0	215.1
55°	1808.9	543.0	198.3	204.6	246.9	258.9	255.5	248.2	218.5	215.6
57.5°	1946.8	468.6	185.9	194.6	243.0	258.4	245.0	234.5	221.9	217.7
60°	2050.2	368.6	176.4	185.9	234.5	250.3	233.6	219.7	221.1	218.0
62.5°	2057.0	284.9	165.0	178.3	221.6	242.3	226.0	213.1	224.3	221.4
65°	1936.1	215.3	154.0	169.3	207.8	237.2	218.7	209.5	230.9	227.7
67.5°	1630.0	173.2	144.8	160.1	193.9	226.5	212.1	206.1	236.7	231.1
70°	1176.8	147.7	135.8	148.9	181.5	214.3	206.3	200.0	220.9	212.1
72.5°	724.5	128.0	125.5	134.1	172.0	201.7	197.6	188.5	199.0	192.0
75°	361.8	110.9	114.1	119.5	158.6	187.3	183.0	174.0	175.4	174.0
77.5°	173.2	94.9	100.7	104.9	141.4	171.0	166.4	157.2	155.5	155.7
80°	109.7	79.3	84.9	87.8	126.3	152.1	147.4	138.2	157.7	146.2
82.5°	68.6	64.5	65.9	71.3	110.0	132.3	126.3	118.0	142.1	112.4
85°	38.0	45.0	47.0	51.6	84.7	110.7	104.6	94.2	84.4	83.0
87.5°	22.6	26.8	27.5	30.9	56.9	80.0	70.8	67.1	55.7	55.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)