

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: P269025

Luminaire Tested: **GLEON-AF-01-LED-E1-T3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269025
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-T3-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5415.8 lumens
Efficiency: N/A
Efficacy: 91.8 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 - G2

Input Watts (W): 59
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

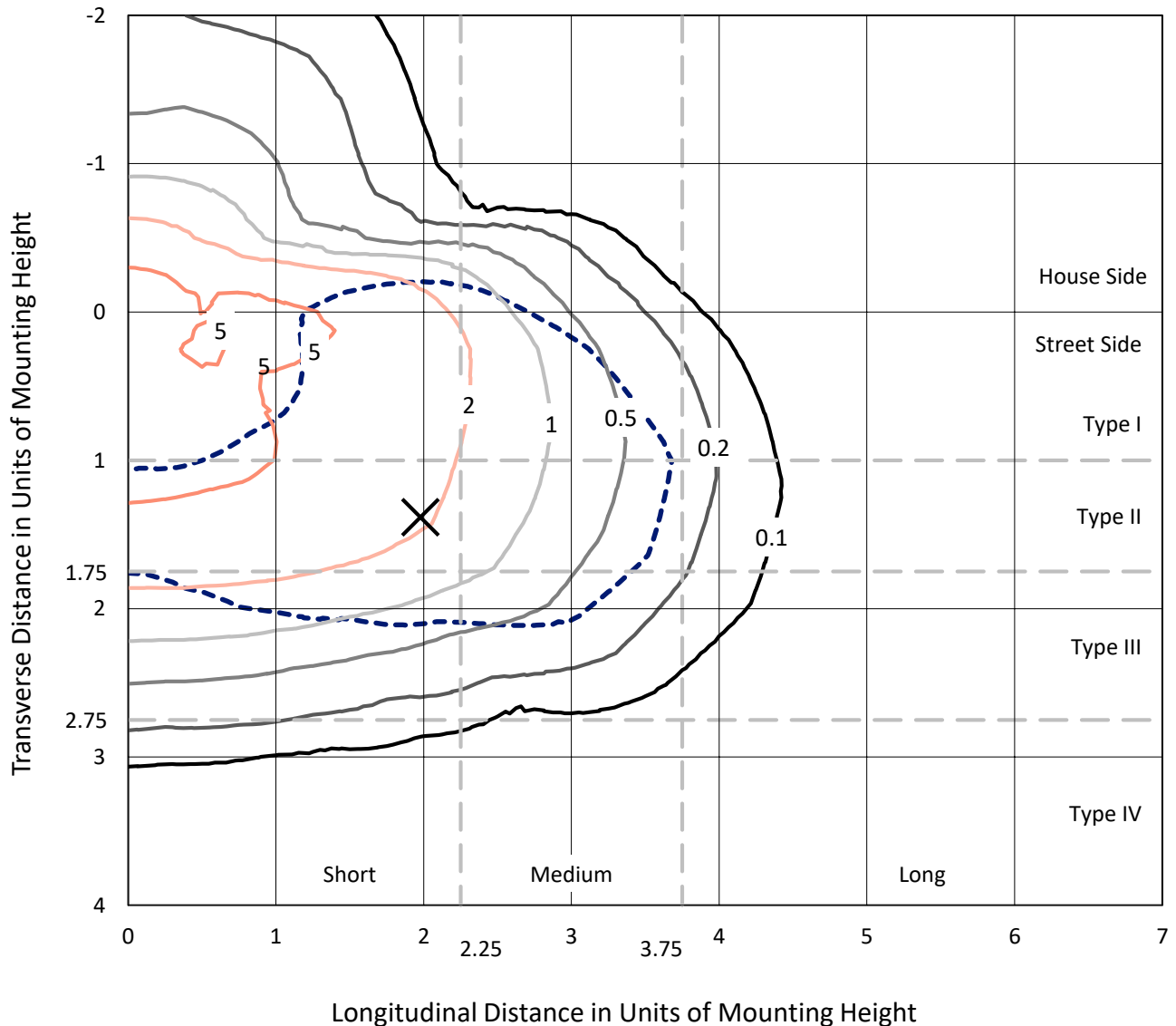


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

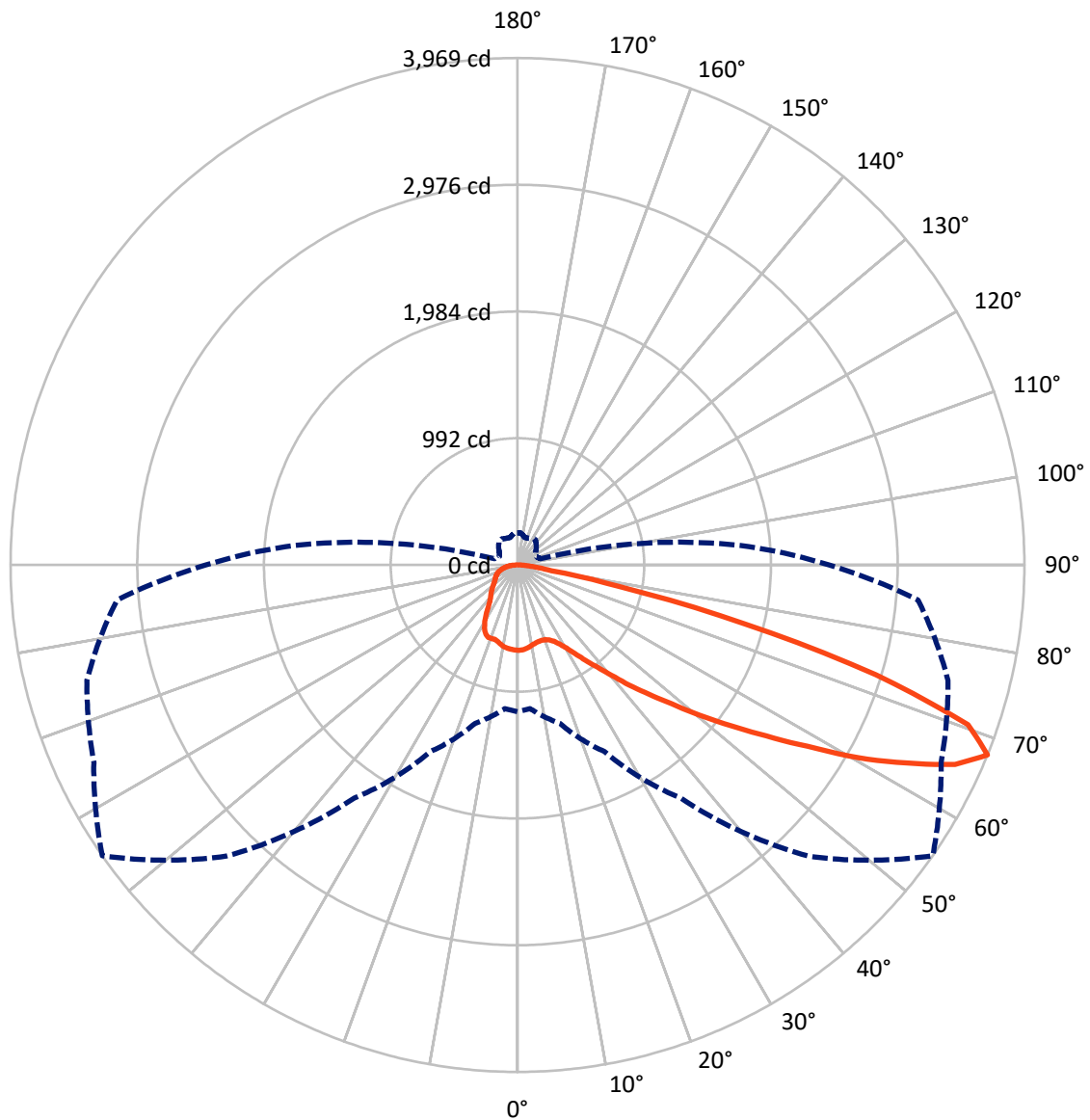


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - Full Cutoff

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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	1169.9	0.0	1169.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	4245.9	0.0	4245.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	5415.8	0.0	5415.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	1.2
10°-20°	176.5	3.3
20°-30°	295.7	5.5
30°-40°	486.3	9.0
40°-50°	818.6	15.1
50°-60°	1288.4	23.8
60°-70°	1537.6	28.4
70°-80°	660.3	12.2
80°-90°	90.0	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°	5415.8	100.0
0°-180°	5415.8	100.0



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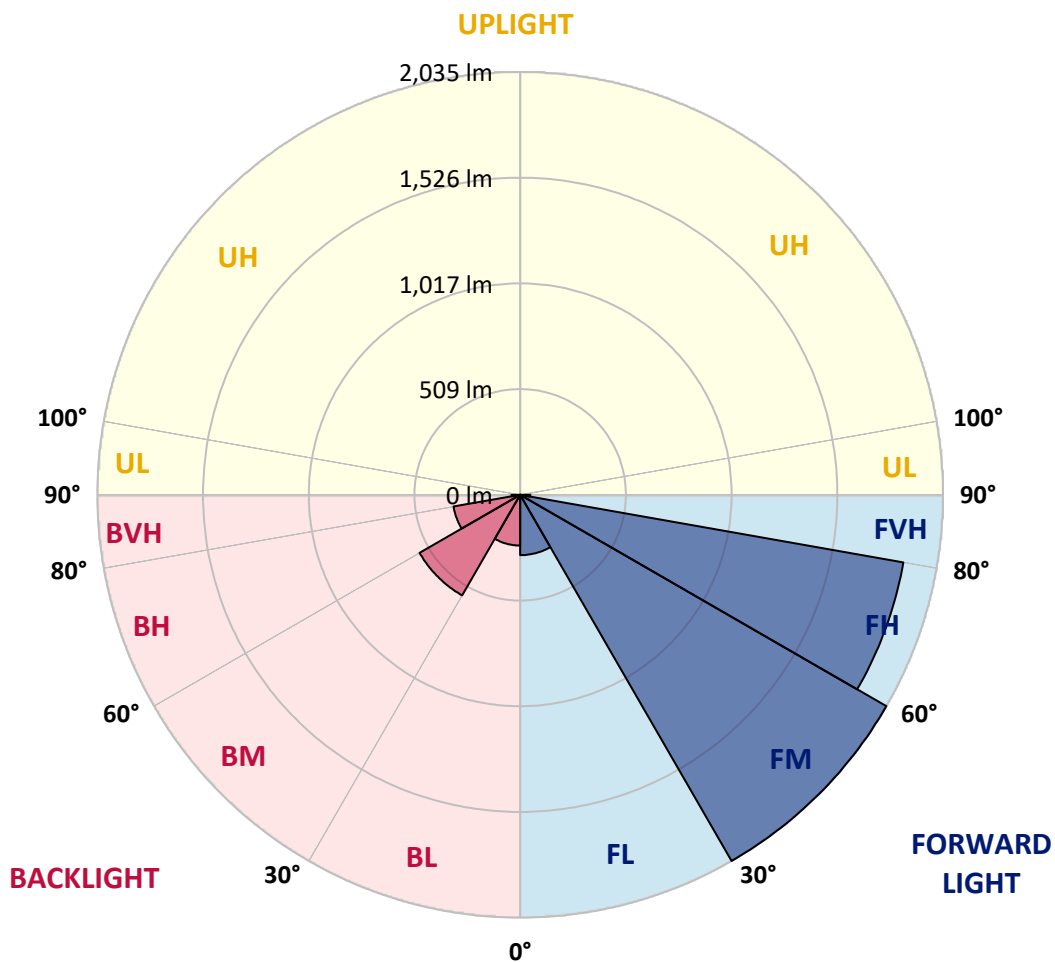
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	290.3	5.4			
FM	(30°-60°)	2034.6	37.6			
FH	(60°-80°)	1872.3	34.6			G2/5000
FVH	(80°-90°)	48.7	0.9			G1/100
BL	(0°-30°)	244.3	4.5	B1/500		
BM	(30°-60°)	558.8	10.3	B1/1000		
BH	(60°-80°)	325.6	6.0	B1/500		G1/500
BVH	(80°-90°)	41.3	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	667.8	667.8	667.8	667.8	667.8	667.8	667.8	667.8	667.8	667.8	667.8
2.5°	662.1	662.3	662.9	664.9	666.8	666.3	666.5	665.5	665.3	663.7	665.3
5°	653.6	654.4	654.8	658.2	660.3	660.8	660.0	658.6	657.1	655.6	656.3
7.5°	634.7	636.7	637.0	641.7	645.1	649.6	649.7	650.1	649.3	648.1	649.7
10°	622.5	623.2	622.9	626.3	628.9	633.8	636.7	641.7	643.7	644.3	645.3
12.5°	621.7	621.3	620.5	620.5	619.7	621.7	627.0	634.1	639.1	640.6	641.8
15°	630.3	629.9	627.2	623.3	618.5	616.9	621.3	629.2	635.6	639.1	640.3
17.5°	648.9	647.4	643.2	634.4	623.7	619.4	620.0	626.5	634.1	638.5	639.9
20°	683.5	683.5	674.6	657.9	638.8	628.9	624.1	628.0	635.5	641.4	643.2
22.5°	743.2	743.6	728.7	701.2	669.1	647.9	636.2	635.5	644.1	650.8	652.9
25°	827.7	825.5	804.6	765.4	716.5	681.5	661.1	656.3	663.7	671.3	673.9
27.5°	926.1	918.4	893.5	846.3	783.0	731.7	700.3	692.7	699.7	708.4	711.0
30°	1023.3	1015.4	985.9	934.1	863.8	799.0	753.9	741.6	751.5	763.7	765.4
32.5°	1120.6	1120.6	1087.7	1027.2	950.5	879.3	825.4	810.7	827.1	842.0	845.5
35°	1237.1	1237.5	1205.6	1132.9	1050.6	974.9	915.6	904.9	929.7	940.2	948.3
37.5°	1380.2	1383.0	1342.0	1254.0	1163.8	1084.3	1013.6	998.9	1023.9	1052.4	1078.5
40°	1534.8	1538.3	1493.2	1384.8	1294.5	1211.5	1135.0	1108.6	1149.9	1204.4	1238.0
42.5°	1682.3	1701.1	1657.5	1546.0	1449.0	1362.9	1285.5	1246.9	1298.8	1381.0	1410.2
45°	1895.5	1909.1	1832.9	1731.9	1640.7	1544.4	1441.9	1401.4	1473.8	1577.3	1583.4
47.5°	2037.4	2027.3	1988.6	1925.7	1867.9	1777.9	1623.6	1579.2	1675.5	1797.4	1763.6
50°	2113.2	2116.2	2110.9	2114.7	2116.8	2060.3	1846.6	1785.7	1900.5	2047.6	1970.1
52.5°	2183.7	2162.8	2180.0	2265.9	2369.5	2348.4	2089.0	2025.5	2141.6	2325.5	2188.2
55°	2182.2	2150.3	2206.4	2358.0	2582.6	2606.7	2361.4	2288.2	2396.7	2623.4	2419.4
57.5°	2105.0	2106.5	2193.1	2391.4	2731.2	2849.5	2677.3	2567.4	2667.2	2925.3	2630.4
60°	1998.8	2013.2	2138.0	2385.9	2850.2	3048.5	3064.9	2868.6	2932.1	3199.8	2805.2
62.5°	1827.4	1842.7	2014.7	2328.9	2832.1	3240.2	3415.5	3210.3	3209.1	3366.0	2856.5
65°	1557.2	1552.8	1733.5	2115.7	2680.7	3382.1	3763.7	3505.5	3418.0	3368.7	2753.5
67.5°	1148.4	1128.5	1283.6	1611.4	2228.2	3223.3	3968.5	3659.3	3489.0	3147.1	2438.4
70°	595.8	576.1	701.5	941.0	1465.5	2515.7	3741.7	3579.7	3331.9	2638.1	1910.3
72.5°	254.8	251.3	302.4	412.9	708.9	1451.0	2934.0	3098.4	2858.9	1965.5	1313.4
75°	171.3	170.3	189.5	224.9	318.9	588.7	1836.0	2199.4	2091.7	1218.7	738.8
77.5°	134.4	133.2	144.4	161.7	206.7	232.3	814.9	1180.8	1092.9	530.4	323.3
80°	105.1	104.2	111.2	120.6	148.6	146.6	268.1	469.9	363.6	203.2	157.3
82.5°	83.0	83.0	88.8	88.9	105.5	99.9	140.0	206.9	181.5	118.4	96.3
85°	75.8	75.8	81.8	66.5	68.8	63.1	86.9	122.7	115.2	48.7	41.9
87.5°	38.2	37.1	68.8	58.8	37.4	33.4	42.4	59.4	63.8	26.9	20.9
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°	667.8	667.8	667.8	667.8	667.8	667.8	667.8	667.8	667.8	667.8
2.5°	664.7	664.4	664.9	665.3	667.4	670.1	671.6	673.3	674.4	673.9
5°	656.8	657.4	659.4	661.1	664.7	669.3	672.0	674.1	676.0	675.2
7.5°	650.4	651.6	654.8	656.0	658.2	659.4	659.1	660.0	661.5	659.7
10°	646.6	648.1	650.6	648.8	643.7	636.7	630.3	626.7	627.8	626.5
12.5°	642.9	645.1	643.2	634.7	620.8	611.6	606.6	607.2	609.5	609.9
15°	640.9	641.7	633.8	617.7	603.5	602.1	604.7	604.3	604.5	604.5
17.5°	640.9	638.8	624.1	608.0	602.0	599.6	591.4	581.3	576.8	575.3
20°	644.3	638.8	621.0	610.3	597.3	577.0	555.6	536.7	528.5	526.0
22.5°	654.4	645.1	629.9	611.3	574.1	540.4	506.5	483.9	468.7	466.1
25°	675.2	664.7	647.4	597.5	537.5	489.4	450.7	425.5	410.4	408.3
27.5°	711.3	704.5	656.8	566.9	488.9	437.4	401.5	382.1	370.9	370.1
30°	765.6	762.2	652.1	521.6	429.0	386.9	369.7	358.3	350.0	349.7
32.5°	852.5	825.1	636.7	466.4	374.4	351.1	344.1	337.1	330.7	330.7
35°	964.2	875.8	607.4	407.3	341.0	331.1	322.3	311.5	302.9	302.4
37.5°	1095.6	907.2	554.9	359.7	325.5	317.8	304.7	288.7	273.7	271.0
40°	1228.2	916.6	480.9	330.3	315.5	304.4	288.5	269.8	255.1	254.3
42.5°	1349.9	898.6	402.4	310.3	305.6	291.0	274.2	257.5	245.9	245.6
45°	1451.8	851.8	336.3	291.1	295.1	278.6	263.7	250.1	241.1	239.4
47.5°	1547.8	785.6	290.2	271.0	284.7	271.7	259.3	246.4	237.8	236.4
50°	1659.2	714.2	257.6	251.3	275.4	269.4	262.9	249.5	235.1	233.6
52.5°	1794.3	652.3	232.3	234.1	268.5	272.5	272.2	258.4	233.3	231.3
55°	1944.9	583.9	213.2	219.9	265.4	278.4	274.6	266.8	234.8	231.8
57.5°	2093.2	503.8	199.9	209.2	261.3	277.8	263.5	252.2	238.6	234.1
60°	2204.4	396.3	189.6	199.9	252.2	269.2	251.2	236.3	237.8	234.4
62.5°	2211.6	306.3	177.3	191.8	238.3	260.6	243.0	229.2	241.1	238.1
65°	2081.7	231.6	165.6	182.0	223.4	255.1	235.1	225.2	248.2	244.9
67.5°	1752.7	186.3	155.6	172.1	208.4	243.5	228.1	221.5	254.5	248.6
70°	1265.4	158.8	146.0	160.1	195.1	230.4	221.8	215.1	237.5	228.1
72.5°	779.0	137.6	134.9	144.2	185.0	216.9	212.4	202.7	213.9	206.4
75°	389.0	119.3	122.7	128.5	170.6	201.4	196.6	187.0	188.6	187.0
77.5°	186.3	102.0	108.2	112.7	152.0	184.0	178.9	169.1	167.2	167.4
80°	117.9	85.2	91.3	94.4	135.7	163.5	158.6	148.6	169.5	157.3
82.5°	73.8	69.3	70.8	76.6	118.2	142.3	135.7	126.9	152.7	120.8
85°	40.9	48.4	50.5	55.4	91.0	119.0	112.5	101.1	90.8	89.2
87.5°	24.3	28.7	29.6	33.1	61.3	86.1	76.1	72.3	59.8	59.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)