

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: P193909

Luminaire Tested: **GLEON-AF-01-LED-E1-T2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
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-T2-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4991 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G1

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

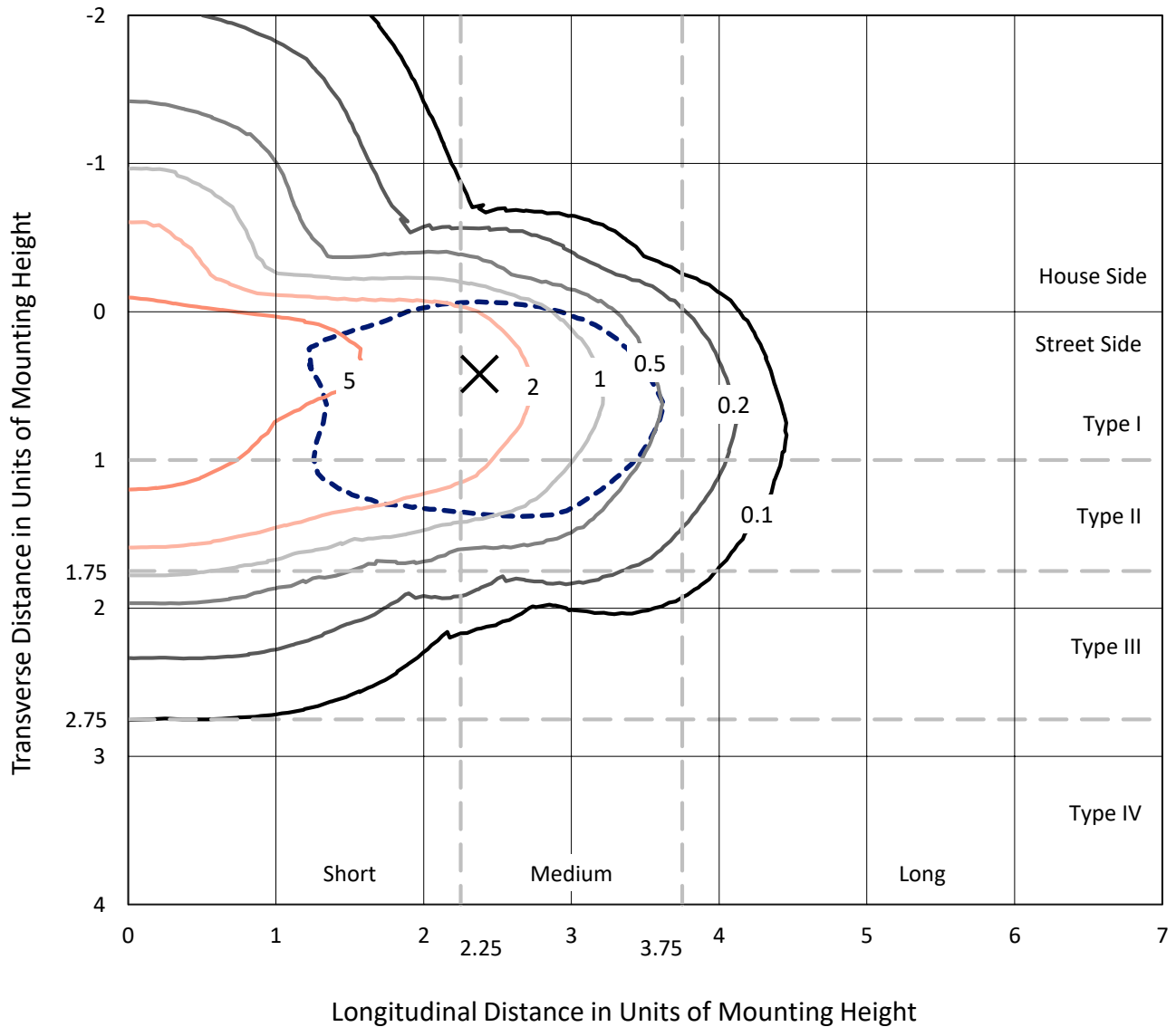


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

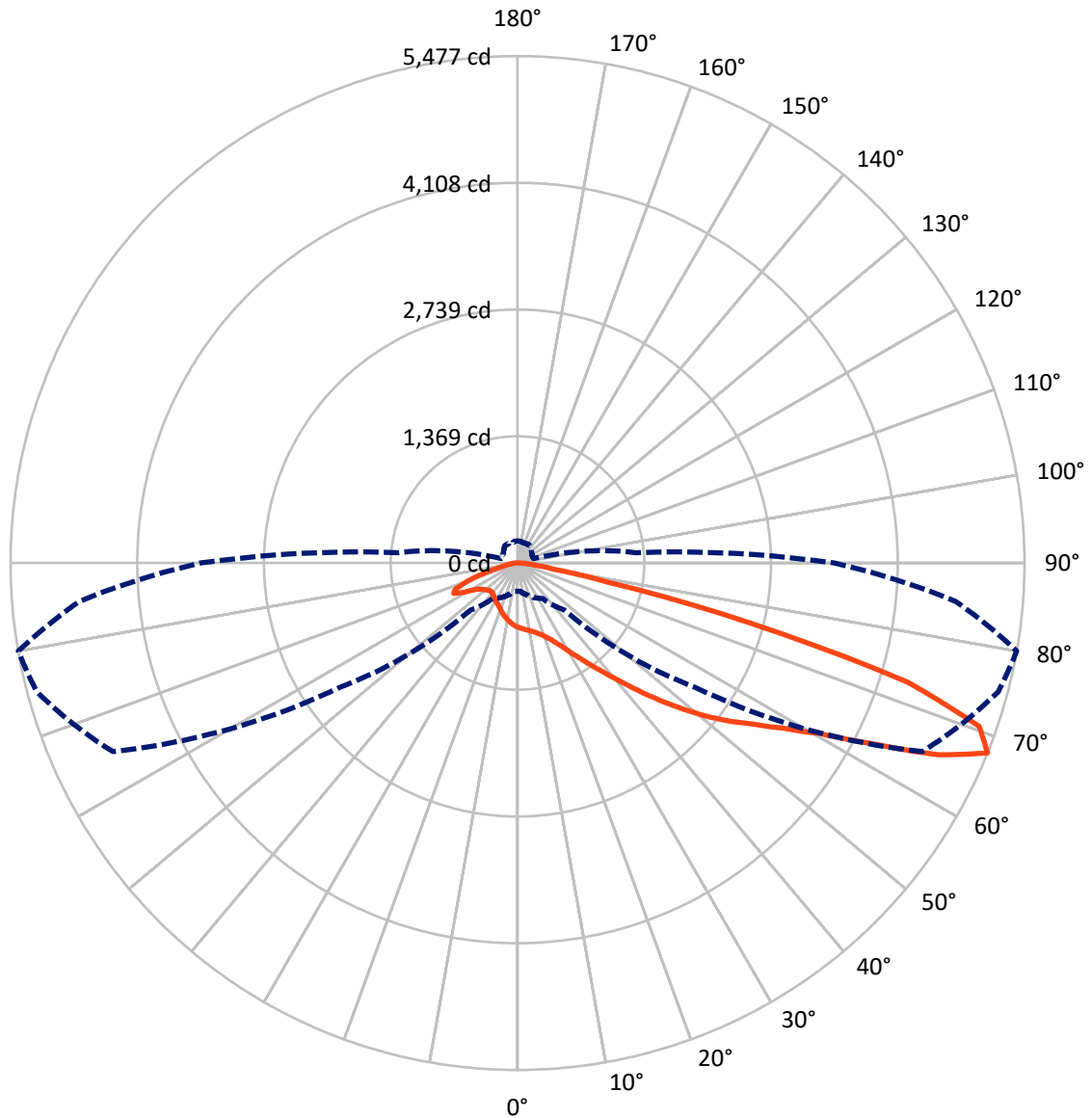


Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	919.2	0.0	919.2
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	4071.8	0.0	4071.8
	% Fixture	81.6	0.0	81.6
Total	Lumens	4991.0	0.0	4991.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.0	1.3
10°-20°	184.3	3.7
20°-30°	305.0	6.1
30°-40°	498.9	10.0
40°-50°	805.5	16.1
50°-60°	1162.9	23.3
60°-70°	1283.3	25.7
70°-80°	591.5	11.9
80°-90°	95.7	1.9
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°	4991.0	100.0
0°-180°	4991.0	100.0



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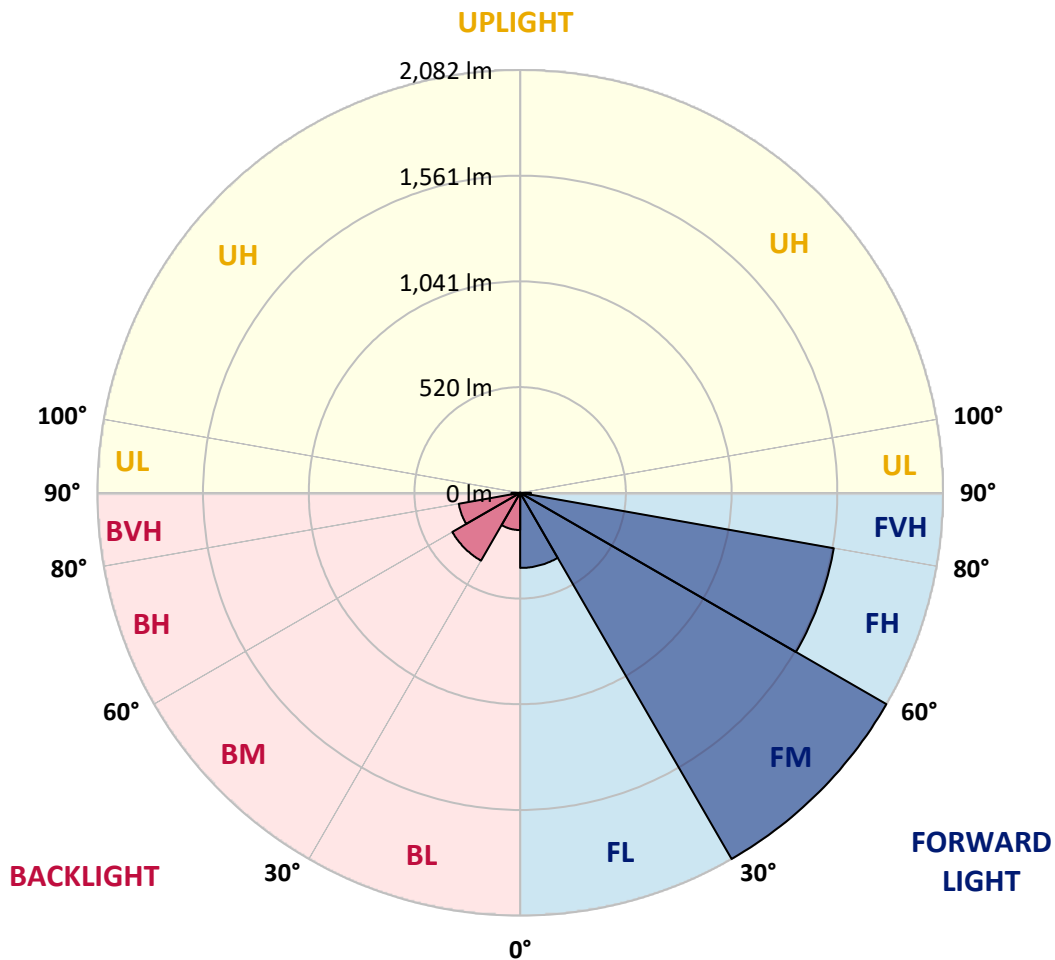
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	369.8	7.4			
FM	(30°-60°)	2081.6	41.7			
FH	(60°-80°)	1567.8	31.4			G1/1800
FVH	(80°-90°)	52.6	1.1			G1/100
BL	(0°-30°)	183.4	3.7	B1/500		
BM	(30°-60°)	385.6	7.7	B1/1000		
BH	(60°-80°)	307.1	6.2	B1/500		G1/500
BVH	(80°-90°)	43.1	0.9			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4
2.5°	758.5	754.1	754.8	753.6	749.9	743.5	736.6	724.1	711.1	704.2	698.8
5°	821.9	820.7	819.0	815.0	805.7	792.4	776.0	753.8	730.0	717.5	705.4
7.5°	869.3	868.6	866.4	863.9	854.8	838.9	814.0	782.6	747.9	730.7	712.1
10°	873.3	874.5	876.2	882.8	884.1	875.5	850.2	812.1	766.6	744.5	720.7
12.5°	839.8	842.5	849.2	866.1	884.1	894.6	881.6	843.0	788.5	761.7	731.5
15°	795.6	797.1	805.2	828.5	860.7	893.4	905.7	877.2	816.7	783.8	747.7
17.5°	776.7	777.4	783.1	798.6	828.5	875.2	919.2	914.3	851.4	811.3	767.6
20°	767.1	768.8	776.9	792.2	811.1	851.9	921.2	954.3	892.7	845.7	792.7
22.5°	794.4	793.6	796.6	804.2	820.2	844.8	919.7	995.6	945.2	890.0	825.3
25°	858.0	860.7	855.6	847.0	852.1	869.3	927.6	1040.3	1011.1	946.7	868.1
27.5°	948.7	946.0	938.4	918.2	907.7	915.0	953.6	1088.5	1092.9	1021.4	924.6
30°	1039.1	1036.9	1029.5	1005.0	983.3	977.2	1004.2	1143.8	1190.5	1111.1	993.9
32.5°	1133.0	1130.5	1123.6	1099.1	1073.0	1058.8	1076.2	1207.7	1305.5	1218.2	1075.5
35°	1248.7	1244.0	1229.5	1195.4	1169.8	1158.8	1166.9	1288.0	1438.1	1345.0	1174.5
37.5°	1357.6	1364.7	1349.9	1302.8	1269.6	1265.7	1274.7	1386.1	1581.1	1486.8	1288.3
40°	1466.9	1468.1	1454.9	1416.3	1382.1	1375.7	1398.6	1505.0	1750.0	1656.3	1426.6
42.5°	1579.9	1582.4	1560.0	1524.4	1499.3	1500.6	1526.6	1644.3	1943.6	1856.1	1585.8
45°	1713.8	1717.5	1692.9	1646.3	1623.4	1669.4	1658.5	1800.6	2155.9	2083.1	1768.6
47.5°	1853.9	1859.5	1840.9	1797.1	1768.6	1831.8	1790.5	1973.8	2384.4	2326.6	1969.4
50°	1930.3	1938.4	1956.6	1953.4	1947.3	1936.7	1937.7	2159.5	2620.0	2580.2	2175.8
52.5°	1889.3	1889.0	1955.4	2036.0	2122.0	2128.3	2117.0	2355.4	2840.2	2828.1	2370.1
55°	1701.5	1714.3	1814.8	1970.8	2205.7	2352.4	2385.8	2579.7	3056.4	3070.4	2567.4
57.5°	1389.0	1399.6	1535.2	1752.7	2092.7	2485.6	2768.2	2905.8	3298.2	3363.5	2830.1
60°	942.1	954.8	1098.6	1359.8	1788.5	2411.4	3132.1	3487.6	3587.6	3736.3	3198.7
62.5°	553.6	565.1	682.3	857.8	1259.3	2066.7	3291.8	4315.4	4047.3	4298.7	3760.8
65°	381.1	389.0	446.0	533.9	723.6	1392.0	3093.7	4886.9	4754.7	4995.5	4412.7
67.5°	306.6	305.7	350.9	410.8	465.9	717.7	2339.4	4822.3	5376.9	5477.4	4751.1
70°	252.6	251.6	282.3	332.0	372.3	404.2	1274.3	4069.5	5250.1	5290.9	4439.5
72.5°	211.3	212.3	232.0	268.8	305.4	304.4	560.0	2862.8	4130.1	4412.2	3539.0
75°	178.4	178.9	191.9	217.9	247.9	245.2	303.7	1550.9	2400.8	2597.2	1961.8
77.5°	151.8	152.3	160.7	175.2	196.6	195.6	221.6	670.1	1001.5	989.2	671.0
80°	135.4	135.4	139.3	142.0	153.8	149.4	164.4	321.9	423.4	390.9	267.8
82.5°	106.1	106.6	130.7	129.7	121.1	115.5	115.5	189.7	224.3	207.4	156.8
85°	59.7	59.5	84.3	101.7	106.6	81.3	80.6	106.1	122.1	107.6	75.9
87.5°	25.6	26.0	39.1	45.2	60.4	50.6	49.9	54.8	62.2	53.8	35.1
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°	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4
2.5°	693.6	687.3	673.2	655.8	640.1	629.8	620.4	606.9	607.6	598.3	591.4
5°	693.1	679.9	647.4	608.9	571.8	545.0	524.8	506.7	502.2	493.6	488.5
7.5°	693.6	672.0	617.5	555.8	509.8	475.9	458.7	449.2	446.9	444.0	444.2
10°	695.4	664.9	584.5	506.2	458.0	435.6	431.5	434.4	437.9	438.8	439.1
12.5°	699.3	658.5	548.4	461.9	425.6	418.7	425.8	435.9	442.5	445.7	445.5
15°	708.1	653.6	513.8	427.3	407.6	411.3	424.6	438.8	448.4	452.8	453.1
17.5°	717.7	646.5	478.2	400.8	394.4	403.7	420.2	436.9	448.7	453.6	454.6
20°	730.3	637.6	440.8	380.9	381.8	392.4	407.9	424.6	437.6	441.8	443.8
22.5°	746.7	628.0	408.1	364.6	367.6	375.7	387.7	402.2	413.5	415.5	417.2
25°	768.8	617.7	382.1	349.9	351.1	355.8	363.9	372.5	380.4	378.1	379.9
27.5°	798.6	608.9	362.7	336.4	334.2	335.1	339.3	342.0	346.2	340.1	340.8
30°	833.5	599.3	347.7	324.6	318.4	316.7	317.7	319.2	322.4	314.0	312.8
32.5°	874.0	587.7	333.7	314.3	305.7	302.2	302.7	306.6	318.9	313.8	311.1
35°	921.2	574.7	318.9	303.0	297.1	292.1	291.7	303.9	340.6	337.4	334.9
37.5°	976.5	561.7	304.2	290.2	290.7	285.3	283.5	297.6	344.7	332.2	330.5
40°	1046.7	554.8	291.7	276.7	282.8	282.1	278.6	285.8	317.2	294.4	291.4
42.5°	1133.7	555.8	282.3	262.2	273.5	281.3	275.9	276.2	287.5	270.3	267.6
45°	1241.1	567.3	275.7	250.6	262.9	280.6	275.0	271.0	272.0	262.9	261.4
47.5°	1366.4	591.2	271.0	241.0	252.8	277.9	274.7	269.5	267.3	262.4	261.2
50°	1505.7	625.8	267.6	232.0	243.7	273.5	275.0	268.1	265.6	263.6	262.9
52.5°	1642.6	665.4	262.4	224.1	236.6	268.1	275.7	266.6	263.9	262.4	261.7
55°	1795.2	714.8	254.6	217.5	230.7	261.2	275.7	264.4	261.4	261.7	261.4
57.5°	2001.3	794.6	245.2	211.8	223.6	252.8	271.0	261.9	258.2	258.5	258.7
60°	2323.4	935.4	233.9	206.2	214.8	243.0	264.6	256.5	252.8	253.8	254.1
62.5°	2797.2	1142.1	219.2	197.8	205.4	232.4	255.8	249.6	246.0	248.4	248.4
65°	3289.6	1324.4	201.0	187.2	195.6	220.9	244.7	241.0	237.4	243.0	242.8
67.5°	3422.0	1283.6	182.8	175.7	185.8	208.1	231.5	229.5	227.5	237.4	236.9
70°	3039.9	1030.5	166.1	163.9	174.9	194.4	217.2	217.2	216.0	223.4	221.6
72.5°	2316.1	730.7	150.1	151.4	162.7	179.4	201.7	203.4	201.5	205.2	203.7
75°	1239.9	418.2	134.2	137.6	147.4	164.1	184.5	186.2	185.0	184.8	185.5
77.5°	412.1	204.4	117.4	122.9	131.5	148.4	166.6	169.3	166.3	165.9	165.6
80°	183.5	128.5	99.0	106.1	113.8	130.5	147.7	149.9	146.7	151.1	145.5
82.5°	117.9	84.5	79.4	87.2	94.6	112.5	128.8	129.2	126.3	146.7	125.1
85°	57.3	52.3	59.7	66.8	73.2	88.5	106.6	106.9	99.5	90.7	87.5
87.5°	28.5	30.5	39.8	46.2	49.4	60.7	77.6	76.2	73.0	66.3	61.2
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)