

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: P193619

Luminaire Tested: **GLEON-AF-01-LED-E1-SL2-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193619
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4025 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - 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

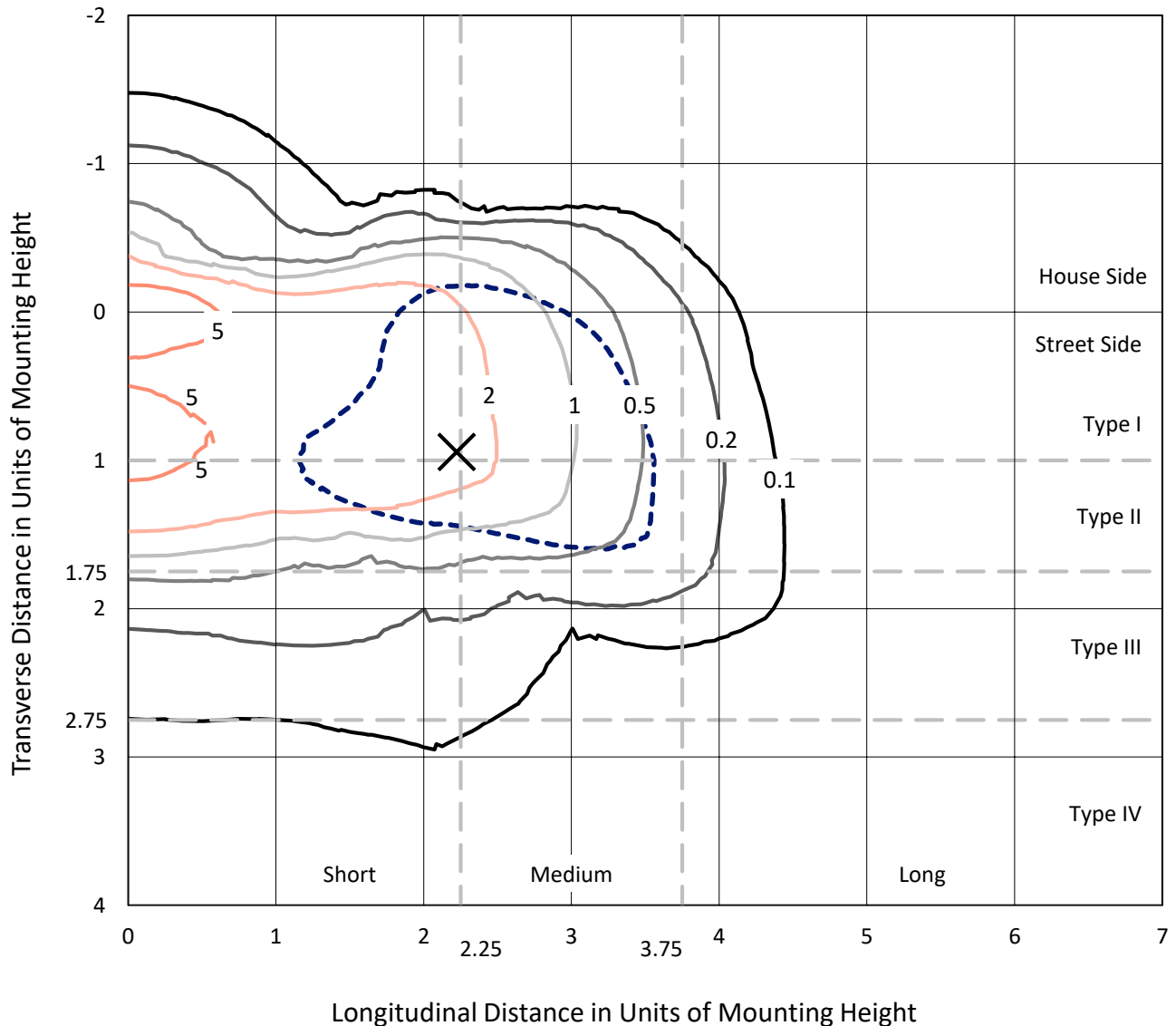


REPORT NUMBER: P193619

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL2-8030-800

Iso-Footcandle Lines of Horizontal Illumination

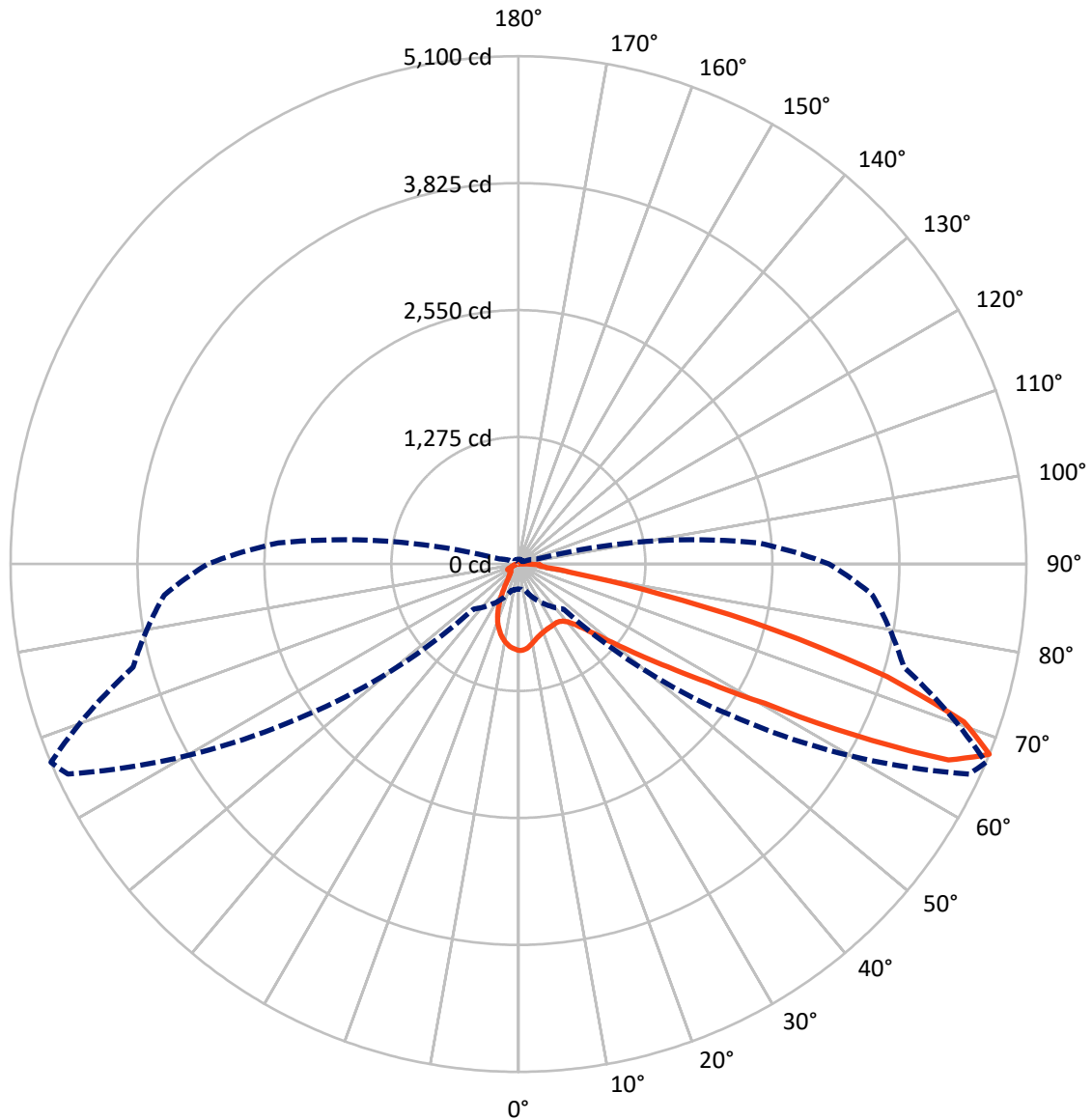
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P193619
CATALOG NUMBER: GLEON-AF-01-LED-E1-SL2-8030-800

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P193619

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL2-8030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	666.9	0.0	666.9
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	3358.1	0.0	3358.1
	% Fixture	83.4	0.0	83.4
Total	Lumens	4025.0	0.0	4025.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	1.8
10°-20°	171.4	4.3
20°-30°	232.3	5.8
30°-40°	330.3	8.2
40°-50°	552.5	13.7
50°-60°	874.1	21.7
60°-70°	1113.5	27.7
70°-80°	583.3	14.5
80°-90°	93.5	2.3
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°	4025.0	100.0
0°-180°	4025.0	100.0



REPORT NUMBER: P193619

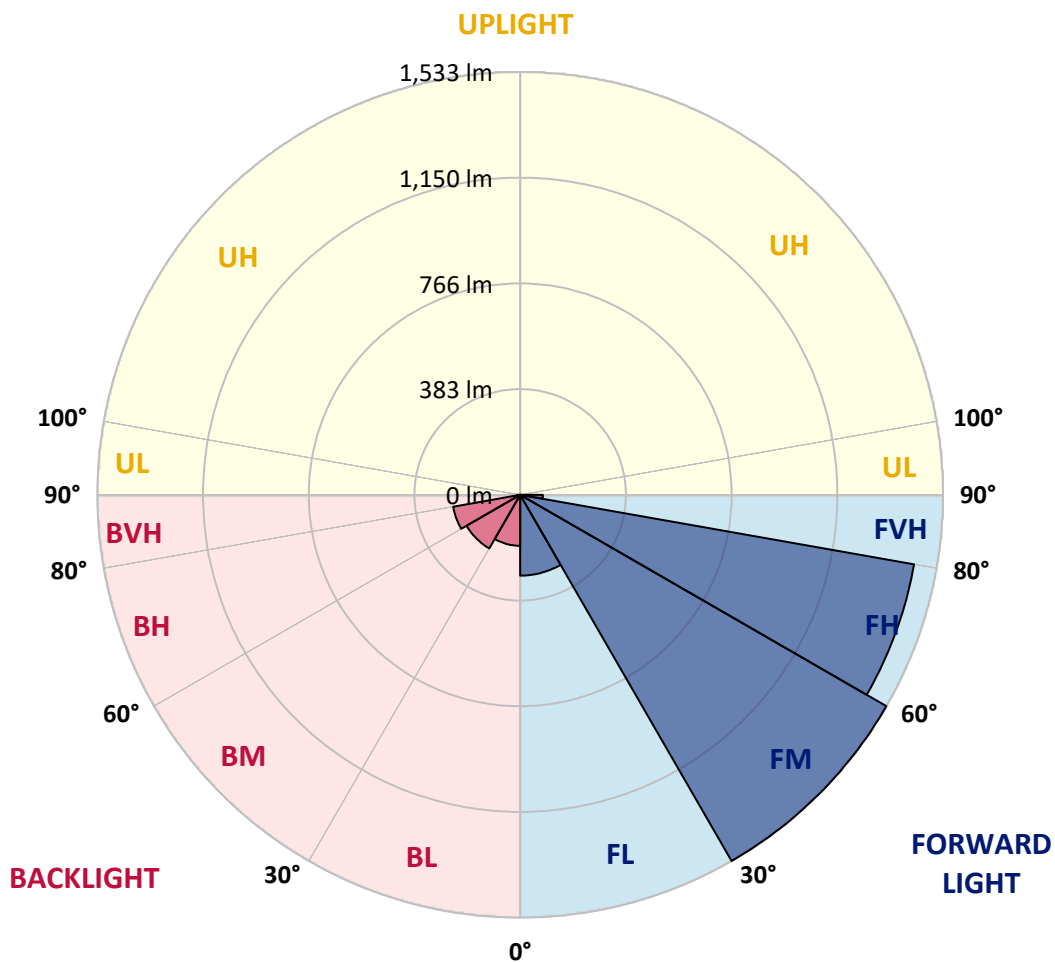
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	292.9	7.3			
FM	(30°-60°)	1532.8	38.1			
FH	(60°-80°)	1450.1	36.0			G1/1800
FVH	(80°-90°)	82.3	2.0			G1/100
BL	(0°-30°)	184.8	4.6	B1/500		
BM	(30°-60°)	224.1	5.6	B1/1000		
BH	(60°-80°)	246.7	6.1	B1/500		G1/500
BVH	(80°-90°)	11.3	0.3			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 Short





REPORT NUMBER: P193619

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL2-8030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	868.2	868.2	868.2	868.2	868.2	868.2	868.2	868.2	868.2	868.2	868.2
2.5°	832.5	833.8	838.2	841.0	853.5	858.9	862.6	866.4	867.0	868.8	867.0
5°	745.1	748.1	756.2	765.4	789.6	808.6	828.7	849.5	853.3	866.8	870.6
7.5°	677.4	676.6	683.4	694.3	719.1	745.5	780.6	822.1	830.3	860.6	875.3
10°	628.0	627.4	634.6	645.9	669.5	694.5	734.2	791.0	802.5	850.9	879.9
12.5°	591.5	591.7	598.8	611.3	635.4	660.6	700.9	760.8	775.5	839.6	884.7
15°	567.3	568.9	574.6	587.9	611.3	636.5	676.0	738.2	754.6	830.7	890.0
17.5°	559.1	561.7	563.7	573.4	593.5	618.7	657.4	721.5	739.0	824.5	894.8
20°	566.7	569.7	565.9	569.3	582.0	604.2	642.7	708.4	726.3	817.6	895.4
22.5°	599.0	601.8	590.7	581.0	580.2	593.7	630.6	698.1	716.5	812.4	895.6
25°	656.0	657.8	639.1	616.5	594.5	589.9	622.1	690.9	710.6	807.8	891.8
27.5°	725.9	727.3	705.8	672.5	628.2	598.8	619.1	686.8	707.2	803.9	885.5
30°	810.8	817.4	788.6	746.5	682.0	625.2	625.0	684.6	703.4	797.1	872.9
32.5°	897.8	900.5	880.7	838.0	754.4	671.7	641.7	686.2	702.4	789.0	857.1
35°	985.9	989.5	976.6	942.2	853.5	739.8	674.3	695.5	708.6	786.2	846.0
37.5°	1100.0	1104.8	1086.9	1047.2	974.0	832.1	728.4	718.9	727.5	794.1	842.6
40°	1280.4	1278.3	1226.1	1166.9	1105.8	950.2	805.9	758.6	763.6	819.8	852.9
42.5°	1490.4	1485.1	1395.2	1302.3	1250.7	1093.1	908.3	827.5	826.5	870.2	889.2
45°	1658.0	1653.6	1572.6	1458.1	1416.8	1255.8	1040.7	930.1	922.8	950.2	956.3
47.5°	1748.7	1748.9	1702.2	1608.7	1607.7	1462.7	1210.8	1078.6	1065.9	1078.8	1072.2
50°	1716.9	1721.1	1716.1	1686.3	1782.0	1733.8	1432.9	1285.6	1260.0	1272.7	1247.5
52.5°	1563.3	1568.6	1598.0	1643.7	1855.3	2061.5	1759.2	1542.8	1513.1	1508.5	1480.5
55°	1291.0	1297.5	1357.5	1481.5	1794.3	2281.6	2274.1	1870.7	1823.3	1780.2	1768.3
57.5°	889.8	900.7	997.2	1181.4	1597.2	2348.1	2887.2	2338.2	2241.7	2091.3	2094.0
60°	501.6	514.3	628.0	795.3	1199.5	2275.9	3353.6	3046.2	2842.5	2455.5	2476.1
62.5°	319.0	332.7	419.0	552.6	719.7	1886.8	3544.8	4030.5	3771.9	2904.5	2924.7
65°	258.2	264.2	304.9	456.1	522.6	1136.7	3399.7	4841.3	4744.8	3474.3	3379.8
67.5°	252.1	254.1	275.1	382.9	501.2	638.9	2711.7	4992.9	5099.9	4006.5	3569.4
70°	249.1	256.0	310.0	365.4	479.9	538.9	1629.6	4577.3	4746.2	4145.6	3317.1
72.5°	120.9	120.5	156.0	330.5	540.7	558.9	837.2	3703.6	3873.1	3591.6	2725.8
75°	97.5	89.1	85.2	121.1	519.8	577.2	533.5	2548.4	2671.0	2408.0	1675.6
77.5°	92.5	82.6	75.6	75.8	219.7	612.1	452.0	1410.4	1446.2	1087.7	459.1
80°	76.6	67.5	62.5	70.5	106.4	583.0	488.7	638.3	585.7	267.2	152.8
82.5°	53.2	48.4	47.0	59.1	85.2	415.4	568.3	343.0	287.6	133.8	94.3
85°	33.9	29.0	32.2	43.1	66.3	191.7	585.3	267.4	212.6	85.0	53.2
87.5°	15.7	12.7	15.9	23.8	43.3	66.1	557.0	300.3	218.9	44.9	33.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P193619

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL2-8030-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	868.2	868.2	868.2	868.2	868.2	868.2	868.2	868.2	868.2	868.2	868.2
2.5°	868.6	864.8	861.8	856.3	850.1	844.2	838.8	832.1	830.1	828.3	831.1
5°	871.4	867.6	856.7	839.6	820.7	803.1	785.4	770.3	761.0	755.8	758.8
7.5°	875.5	870.2	847.5	816.2	782.2	751.3	719.3	693.7	674.9	665.9	668.5
10°	879.3	869.0	832.1	785.0	735.4	689.3	638.9	597.2	566.3	550.0	554.0
12.5°	880.9	864.4	810.4	746.1	678.0	610.5	536.3	474.0	429.5	413.3	409.9
15°	882.5	859.3	786.6	701.9	608.8	513.3	409.3	334.6	297.7	289.6	287.8
17.5°	882.9	850.3	759.6	653.8	527.6	397.6	279.9	232.4	232.6	245.7	247.3
20°	878.7	837.0	726.9	594.1	430.3	274.9	192.1	184.0	214.0	246.7	250.7
22.5°	869.2	819.4	689.7	524.4	319.0	181.0	148.7	157.6	196.3	236.4	241.0
25°	857.1	797.9	645.9	443.6	211.2	129.4	124.6	135.6	161.8	188.6	191.1
27.5°	840.6	772.5	596.7	351.1	137.2	106.6	109.8	117.1	127.8	139.7	140.9
30°	819.4	742.1	544.1	256.0	103.6	95.9	100.4	104.4	109.0	115.7	116.3
32.5°	794.9	713.0	490.1	176.9	91.9	90.3	93.9	95.9	99.4	103.6	104.0
35°	774.5	685.2	434.1	125.0	86.9	86.1	88.5	89.3	92.7	97.3	97.7
37.5°	762.8	662.5	376.3	100.8	83.6	82.4	83.8	83.8	88.5	95.3	96.3
40°	763.6	650.0	318.6	91.1	80.8	79.2	79.4	79.4	85.5	92.9	93.5
42.5°	785.2	653.2	267.4	87.3	78.6	76.8	75.8	76.4	81.6	86.3	86.7
45°	836.0	675.7	219.3	85.0	76.4	75.8	73.6	73.4	75.4	77.6	77.6
47.5°	919.4	719.9	186.8	83.4	74.6	74.4	71.9	69.3	69.1	69.9	69.9
50°	1055.0	796.1	164.9	81.6	73.4	71.9	68.9	64.9	63.5	64.1	64.1
52.5°	1258.2	932.1	156.6	79.2	70.9	68.3	64.9	60.9	59.7	59.9	59.9
55°	1524.8	1140.9	155.4	76.4	68.1	63.9	61.1	58.2	56.8	57.2	57.2
57.5°	1850.5	1429.7	176.7	72.1	64.3	59.5	58.0	56.0	55.0	55.6	55.4
60°	2246.5	1807.6	262.0	67.5	60.5	55.6	55.6	54.0	53.2	53.8	53.6
62.5°	2702.6	2241.7	368.4	64.1	56.6	52.4	53.2	52.4	51.6	52.0	51.8
65°	3107.1	2524.6	345.0	61.5	52.6	49.4	50.8	50.4	49.8	50.2	50.0
67.5°	3118.8	2419.8	193.7	58.8	48.8	46.4	48.4	48.2	47.8	48.2	48.0
70°	2783.4	2043.2	109.2	53.6	44.9	42.9	45.7	45.5	45.1	45.9	45.7
72.5°	2230.0	1482.7	79.8	47.2	40.9	39.1	42.3	42.1	42.1	43.3	42.7
75°	1283.2	763.0	63.7	40.5	36.7	35.3	38.1	38.3	38.7	40.3	39.1
77.5°	365.8	237.8	52.0	34.3	31.6	31.0	33.7	34.1	34.3	36.1	34.5
80°	136.0	109.6	42.9	28.8	25.8	26.0	28.6	29.2	29.4	31.2	29.2
82.5°	86.7	72.2	34.7	22.2	20.2	20.0	23.2	24.0	24.0	24.2	23.0
85°	50.6	43.3	26.2	16.1	14.3	13.7	17.3	18.7	18.1	17.7	16.9
87.5°	33.9	29.8	16.1	8.9	7.7	7.3	10.1	11.1	10.7	10.1	9.5
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)