

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: P193629

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193629
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA 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: 4982 lumens
Efficiency: N/A
Efficacy: 84.4 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 - G2

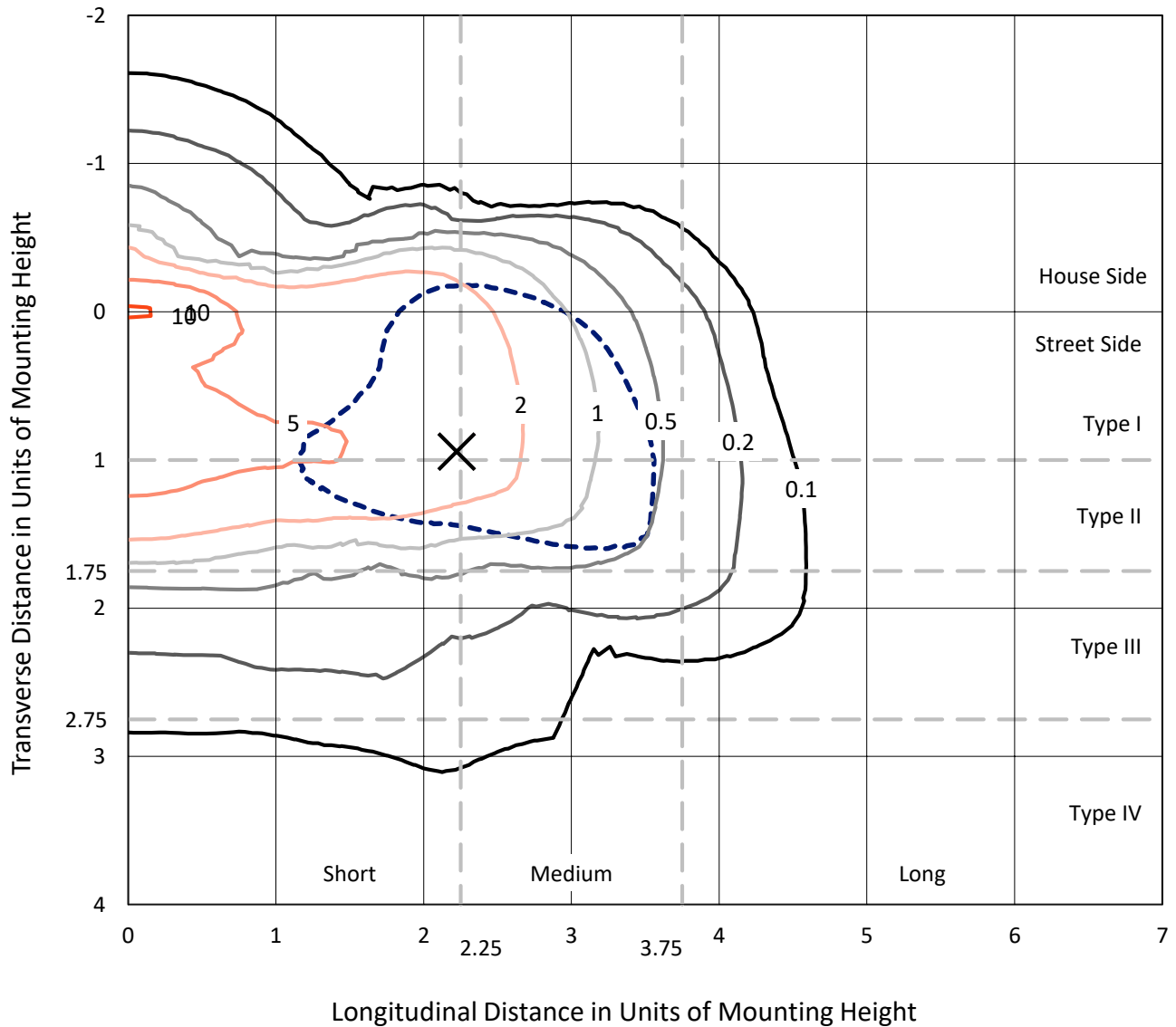
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

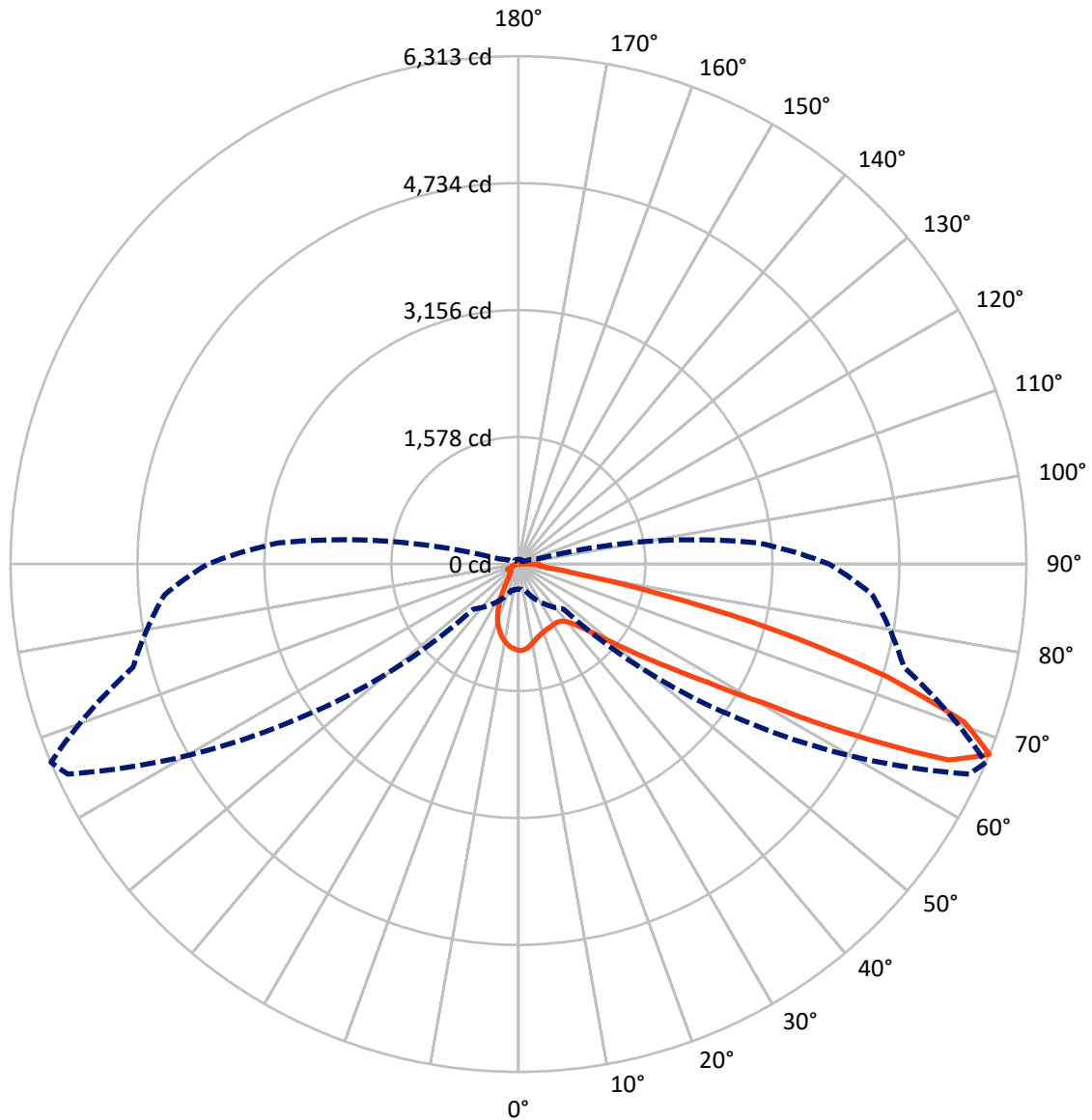
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	825.5	0.0	825.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	4156.5	0.0	4156.5
	% Fixture	83.4	0.0	83.4
Total	Lumens	4982.0	0.0	4982.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.7	1.8
10°-20°	212.1	4.3
20°-30°	287.6	5.8
30°-40°	408.8	8.2
40°-50°	683.9	13.7
50°-60°	1081.9	21.7
60°-70°	1378.3	27.7
70°-80°	721.9	14.5
80°-90°	115.8	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°	4982.0	100.0
0°-180°	4982.0	100.0



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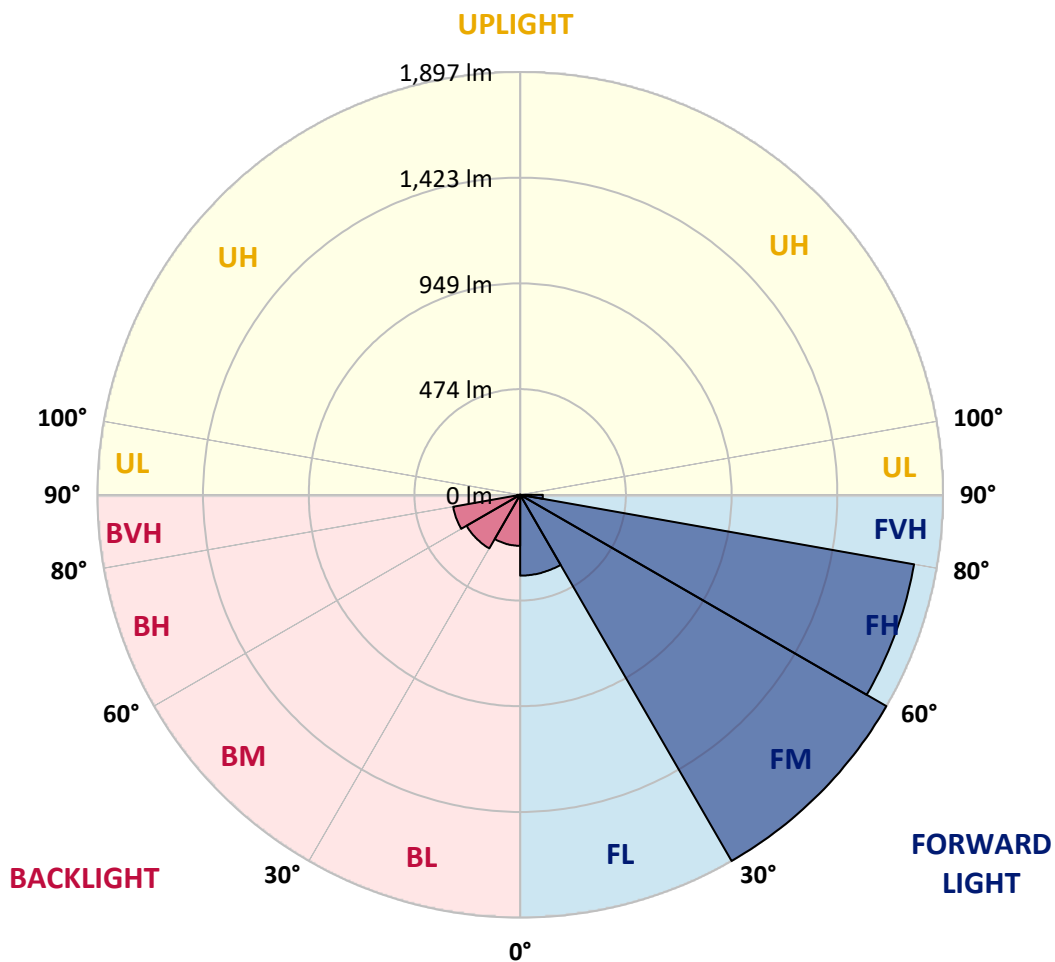
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	362.6	7.3			
FM	(30°-60°)	1897.3	38.1			
FH	(60°-80°)	1794.9	36.0			G1/1800
FVH	(80°-90°)	101.8	2.0			G2/225
BL	(0°-30°)	228.8	4.6	B1/500		
BM	(30°-60°)	277.4	5.6	B1/1000		
BH	(60°-80°)	305.3	6.1	B1/500		G1/500
BVH	(80°-90°)	14.0	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1074.6	1074.6	1074.6	1074.6	1074.6	1074.6	1074.6	1074.6	1074.6	1074.6	1074.6
2.5°	1030.4	1032.1	1037.5	1040.9	1056.4	1063.1	1067.7	1072.4	1073.1	1075.3	1073.1
5°	922.3	926.0	936.0	947.3	977.3	1000.9	1025.7	1051.5	1056.2	1072.9	1077.6
7.5°	838.5	837.5	845.9	859.4	890.1	922.8	966.3	1017.6	1027.7	1065.3	1083.4
10°	777.3	776.6	785.4	799.4	828.7	859.6	908.8	979.0	993.3	1053.2	1089.1
12.5°	732.1	732.4	741.2	756.7	786.4	817.6	867.5	941.7	959.9	1039.2	1095.0
15°	702.2	704.1	711.2	727.7	756.7	787.9	836.8	913.7	934.1	1028.2	1101.6
17.5°	692.1	695.3	697.7	709.8	734.6	765.8	813.7	893.0	914.7	1020.6	1107.5
20°	701.4	705.1	700.4	704.6	720.3	747.9	795.5	876.8	898.9	1012.0	1108.3
22.5°	741.5	744.9	731.1	719.1	718.1	734.8	780.5	864.1	886.9	1005.6	1108.5
25°	812.0	814.2	791.1	763.1	735.8	730.2	770.0	855.2	879.5	999.9	1103.8
27.5°	898.5	900.2	873.6	832.4	777.6	741.2	766.3	850.1	875.4	995.0	1096.0
30°	1003.6	1011.7	976.1	924.0	844.2	773.9	773.6	847.4	870.7	986.7	1080.5
32.5°	1111.2	1114.7	1090.1	1037.3	933.8	831.4	794.3	849.3	869.5	976.6	1060.8
35°	1220.3	1224.7	1208.7	1166.2	1056.4	915.7	834.6	860.9	877.1	973.1	1047.1
37.5°	1361.6	1367.5	1345.3	1296.2	1205.6	1029.9	901.6	889.9	900.4	983.0	1042.9
40°	1584.9	1582.2	1517.6	1444.4	1368.7	1176.1	997.5	939.0	945.1	1014.7	1055.7
42.5°	1844.8	1838.2	1726.9	1611.9	1548.0	1353.0	1124.2	1024.2	1023.0	1077.1	1100.6
45°	2052.2	2046.8	1946.5	1804.8	1753.7	1554.4	1288.1	1151.3	1142.2	1176.1	1183.7
47.5°	2164.4	2164.7	2107.0	1991.2	1990.0	1810.4	1498.6	1335.0	1319.3	1335.3	1327.2
50°	2125.1	2130.3	2124.2	2087.3	2205.7	2146.0	1773.6	1591.3	1559.6	1575.3	1544.1
52.5°	1935.0	1941.6	1978.0	2034.5	2296.4	2551.6	2177.5	1909.7	1872.8	1867.2	1832.5
55°	1597.9	1606.0	1680.2	1833.8	2220.9	2824.1	2814.8	2315.5	2256.8	2203.5	2188.8
57.5°	1101.4	1114.9	1234.3	1462.3	1977.0	2906.4	3573.7	2894.1	2774.7	2588.5	2591.9
60°	620.8	636.6	777.3	984.4	1484.6	2817.0	4151.0	3770.5	3518.4	3039.3	3064.9
62.5°	394.8	411.8	518.6	684.0	890.8	2335.4	4387.6	4988.8	4668.7	3595.0	3620.1
65°	319.6	327.0	377.4	564.6	646.9	1407.0	4208.0	5992.4	5873.0	4300.4	4183.4
67.5°	312.0	314.5	340.5	473.9	620.3	790.8	3356.5	6180.1	6312.5	4959.1	4418.1
70°	308.3	316.9	383.8	452.3	594.1	667.0	2017.0	5665.6	5874.7	5131.3	4105.8
72.5°	149.6	149.1	193.1	409.1	669.2	691.8	1036.3	4584.1	4794.0	4445.6	3373.9
75°	120.6	110.3	105.4	149.9	643.4	714.4	660.4	3154.3	3306.1	2980.6	2074.0
77.5°	114.5	102.2	93.6	93.8	272.0	757.7	559.4	1745.8	1790.0	1346.3	568.3
80°	94.8	83.5	77.4	87.2	131.7	721.6	604.9	790.1	725.0	330.7	189.2
82.5°	65.8	59.9	58.2	73.2	105.4	514.2	703.4	424.5	356.0	165.6	116.7
85°	42.0	35.9	39.8	53.3	82.1	237.3	724.5	330.9	263.1	105.2	65.8
87.5°	19.4	15.7	19.7	29.5	53.6	81.8	689.4	371.7	271.0	55.5	41.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1074.6	1074.6	1074.6	1074.6	1074.6	1074.6	1074.6	1074.6	1074.6	1074.6	1074.6
2.5°	1075.1	1070.4	1066.7	1059.9	1052.2	1044.9	1038.2	1029.9	1027.4	1025.2	1028.7
5°	1078.5	1073.9	1060.4	1039.2	1015.9	994.0	972.2	953.5	941.9	935.6	939.2
7.5°	1083.7	1077.1	1049.1	1010.2	968.2	929.9	890.3	858.7	835.3	824.3	827.5
10°	1088.4	1075.6	1029.9	971.7	910.2	853.2	790.8	739.3	700.9	680.8	685.7
12.5°	1090.3	1069.9	1003.1	923.5	839.2	755.7	663.8	586.7	531.7	511.5	507.3
15°	1092.3	1063.5	973.6	868.7	753.5	635.3	506.6	414.2	368.5	358.4	356.2
17.5°	1092.8	1052.5	940.2	809.3	653.0	492.1	346.4	287.7	287.9	304.2	306.1
20°	1087.6	1036.0	899.7	735.3	532.6	340.3	237.8	227.7	264.8	305.4	310.3
22.5°	1075.8	1014.2	853.7	649.1	394.8	224.1	184.0	195.1	243.0	292.6	298.3
25°	1060.8	987.6	799.4	549.1	261.4	160.2	154.3	167.8	200.2	233.4	236.6
27.5°	1040.5	956.2	738.5	434.6	169.8	131.9	135.9	145.0	158.2	173.0	174.4
30°	1014.2	918.6	673.4	316.9	128.2	118.7	124.3	129.2	134.9	143.2	144.0
32.5°	983.9	882.5	606.6	218.9	113.7	111.8	116.2	118.7	123.1	128.2	128.7
35°	958.6	848.1	537.3	154.8	107.6	106.6	109.6	110.6	114.7	120.4	120.9
37.5°	944.1	820.1	465.8	124.8	103.4	102.0	103.7	103.7	109.6	117.9	119.2
40°	945.1	804.6	394.3	112.8	100.0	98.0	98.3	98.3	105.9	115.0	115.7
42.5°	971.9	808.5	330.9	108.1	97.3	95.1	93.8	94.6	101.0	106.9	107.4
45°	1034.8	836.3	271.5	105.2	94.6	93.8	91.1	90.9	93.4	96.1	96.1
47.5°	1138.0	891.1	231.2	103.2	92.4	92.1	88.9	85.7	85.5	86.5	86.5
50°	1305.8	985.4	204.2	101.0	90.9	88.9	85.3	80.3	78.6	79.4	79.4
52.5°	1557.4	1153.7	193.8	98.0	87.7	84.5	80.3	75.4	73.9	74.2	74.2
55°	1887.3	1412.2	192.4	94.6	84.3	79.1	75.7	72.0	70.3	70.8	70.8
57.5°	2290.5	1769.6	218.7	89.2	79.6	73.7	71.7	69.3	68.1	68.8	68.5
60°	2780.6	2237.4	324.3	83.5	74.9	68.8	68.8	66.8	65.8	66.6	66.3
62.5°	3345.2	2774.7	456.0	79.4	70.0	64.9	65.8	64.9	63.9	64.4	64.1
65°	3845.9	3124.8	427.0	76.2	65.1	61.2	62.9	62.4	61.7	62.2	61.9
67.5°	3860.4	2995.1	239.8	72.7	60.4	57.5	59.9	59.7	59.2	59.7	59.5
70°	3445.2	2529.0	135.1	66.3	55.5	53.1	56.5	56.3	55.8	56.8	56.5
72.5°	2760.2	1835.2	98.8	58.5	50.6	48.4	52.3	52.1	52.1	53.6	52.8
75°	1588.3	944.4	78.9	50.1	45.5	43.7	47.2	47.4	47.9	49.9	48.4
77.5°	452.8	294.3	64.4	42.5	39.1	38.3	41.8	42.3	42.5	44.7	42.7
80°	168.3	135.6	53.1	35.6	31.9	32.2	35.4	36.1	36.4	38.6	36.1
82.5°	107.4	89.4	43.0	27.5	25.1	24.8	28.7	29.7	29.7	30.0	28.5
85°	62.6	53.6	32.4	19.9	17.7	17.0	21.4	23.1	22.4	21.9	20.9
87.5°	42.0	36.9	19.9	11.1	9.6	9.1	12.5	13.8	13.3	12.5	11.8
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)