

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: P191898

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191898
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-10-LED-E1-SL2-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 1050mA LIGHTSQUARES 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: 57717 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

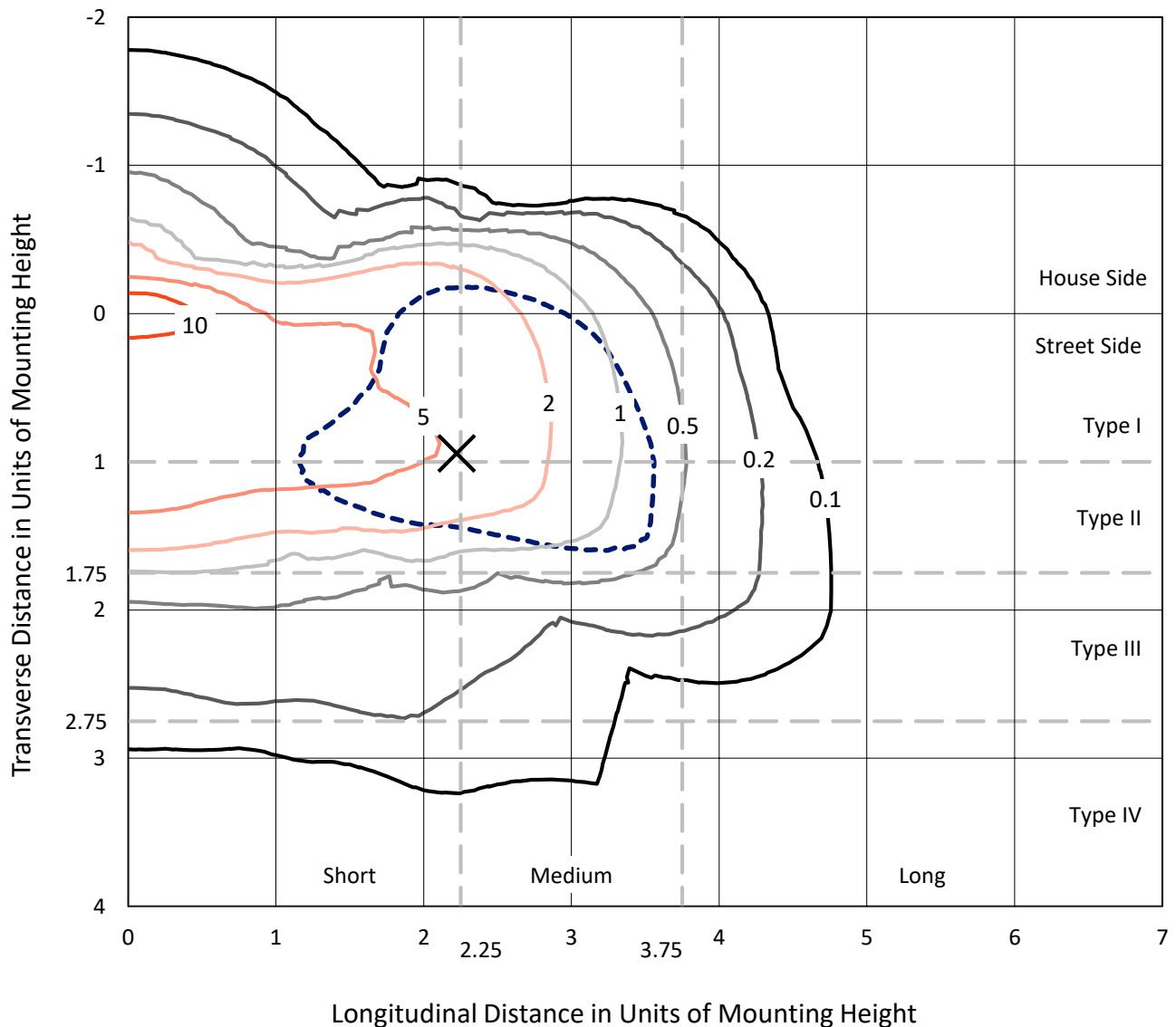
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

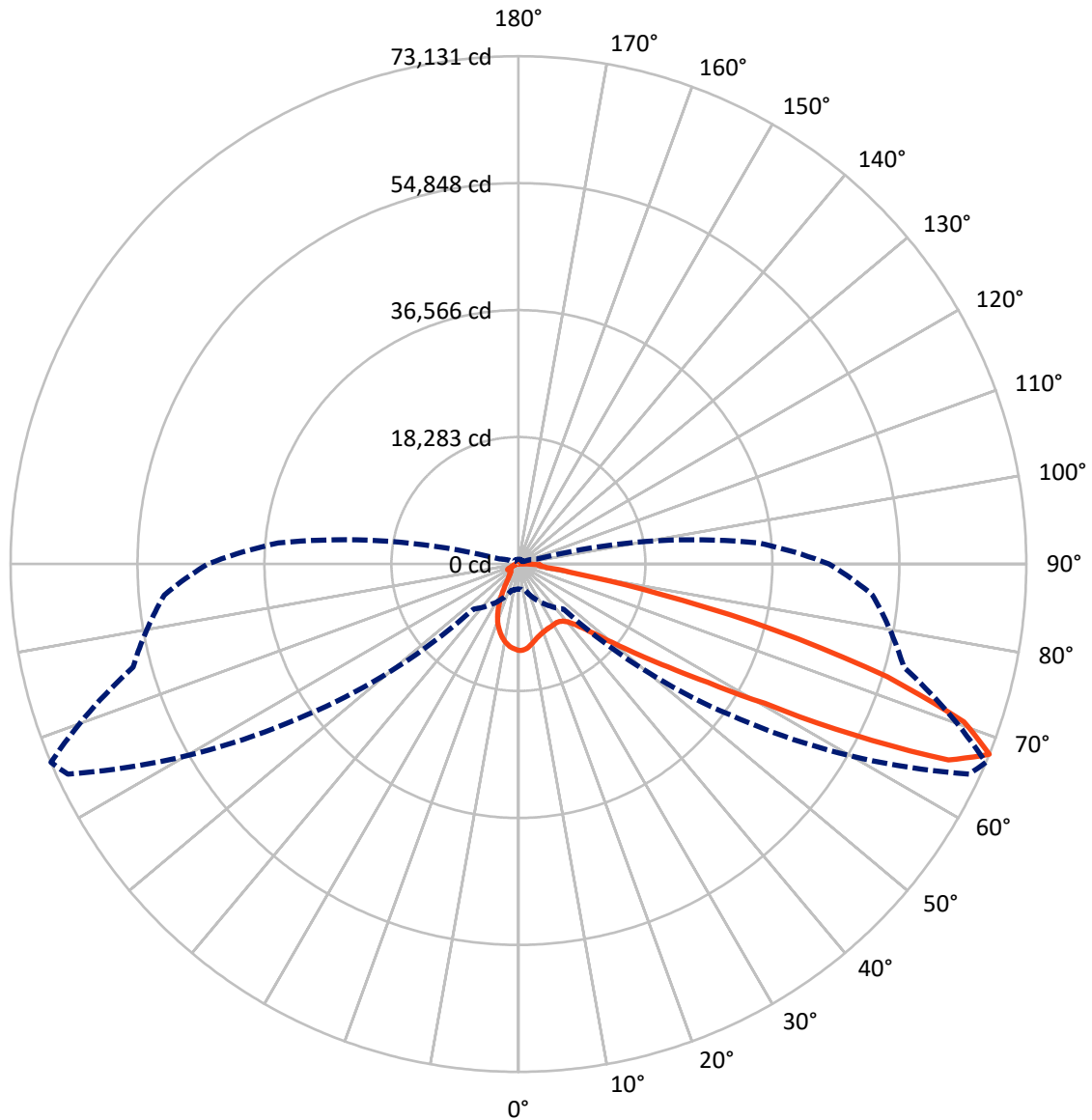
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.8 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	9563.1	0.0	9563.1
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	48153.9	0.0	48153.9
	% Fixture	83.4	0.0	83.4
Total	Lumens	57717.0	0.0	57717.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1062.1	1.8
10°-20°	2457.6	4.3
20°-30°	3331.3	5.8
30°-40°	4735.8	8.2
40°-50°	7923.1	13.7
50°-60°	12534.4	21.7
60°-70°	15967.5	27.7
70°-80°	8363.8	14.5
80°-90°	1341.4	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°	57717.0	100.0
0°-180°	57717.0	100.0

Coefficient of Utilization



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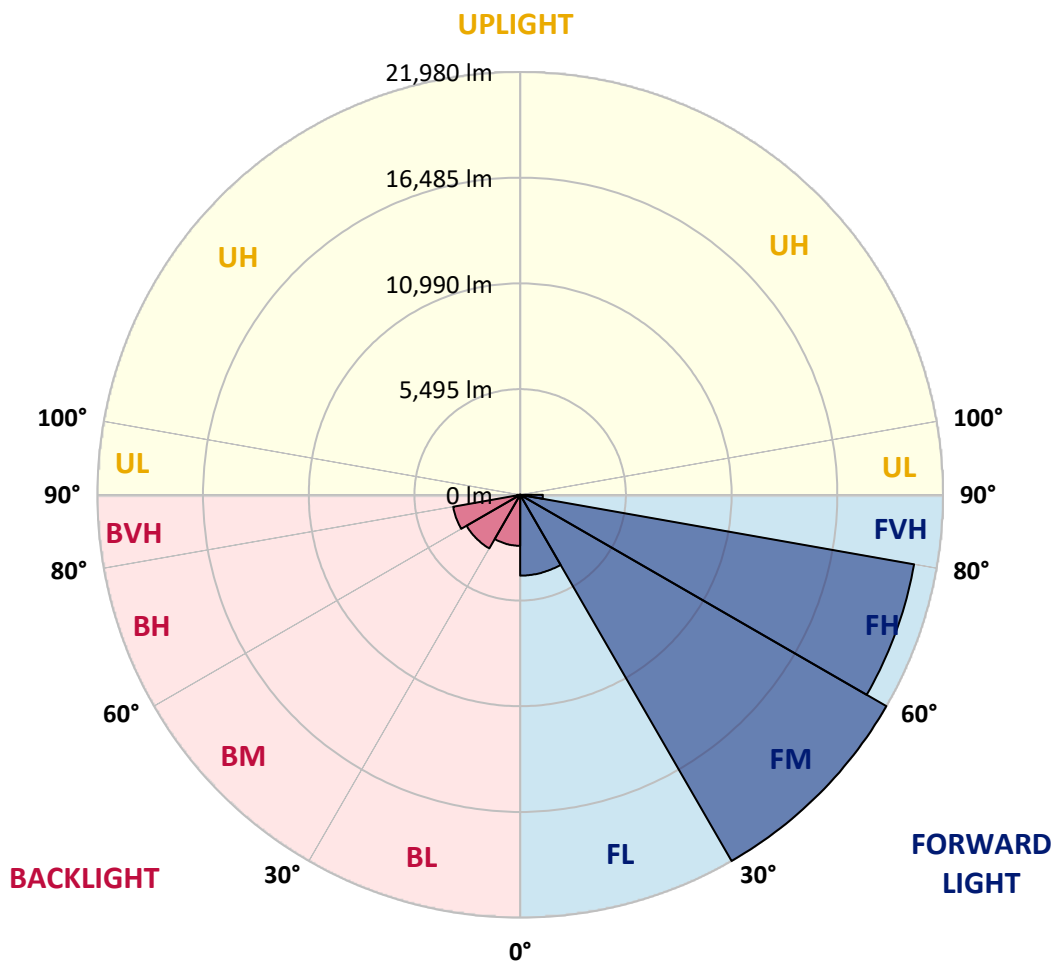
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4200.4	7.3			
FM	(30°-60°)	21979.8	38.1			
FH	(60°-80°)	20794.2	36.0			G5
FVH	(80°-90°)	1179.5	2.0			G5
BL	(0°-30°)	2650.6	4.6	B4/5000		
BM	(30°-60°)	3213.5	5.6	B3/5000		
BH	(60°-80°)	3537.1	6.1	B4/5000		G4/5000
BVH	(80°-90°)	161.9	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	12449.4	12449.4	12449.4	12449.4	12449.4	12449.4	12449.4	12449.4	12449.4	12449.4	12449.4
2.5°	11937.1	11957.0	12019.6	12059.5	12238.8	12315.6	12369.7	12423.8	12432.3	12458.0	12432.3
5°	10684.8	10727.4	10844.1	10975.1	11322.3	11595.5	11883.0	12181.9	12235.9	12429.5	12483.6
7.5°	9714.2	9702.8	9799.6	9956.1	10311.9	10690.4	11194.2	11789.1	11905.8	12341.3	12551.9
10°	9005.5	8996.9	9099.4	9261.6	9600.3	9959.0	10528.2	11342.2	11507.3	12201.8	12617.3
12.5°	8481.8	8484.6	8587.1	8766.4	9110.8	9472.3	10050.0	10909.6	11120.2	12039.6	12685.7
15°	8134.5	8157.3	8239.8	8430.5	8766.4	9127.9	9694.3	10585.1	10821.4	11911.5	12762.5
17.5°	8017.8	8054.8	8083.3	8222.8	8510.2	8871.7	9426.7	10346.1	10596.5	11823.2	12830.8
20°	8126.0	8168.7	8114.6	8163.0	8345.2	8663.9	9216.1	10158.2	10414.4	11723.6	12839.3
22.5°	8589.9	8629.8	8470.4	8330.9	8319.5	8513.1	9042.5	10010.2	10274.9	11649.6	12842.2
25°	9406.8	9432.4	9164.9	8840.4	8524.5	8459.0	8920.1	9907.7	10189.5	11584.2	12788.1
27.5°	10408.7	10428.6	10121.2	9643.0	9008.3	8587.1	8877.4	9848.0	10141.1	11527.2	12697.0
30°	11626.9	11720.8	11308.1	10704.7	9779.7	8965.6	8962.8	9816.7	10087.0	11430.5	12517.7
32.5°	12873.5	12913.4	12628.7	12016.8	10818.5	9631.6	9201.9	9839.4	10072.8	11313.8	12290.0
35°	14137.2	14188.5	14003.5	13511.1	12238.8	10607.9	9668.6	9973.2	10161.0	11273.9	12130.6
37.5°	15773.8	15842.1	15586.0	15016.7	13966.5	11931.4	10445.7	10309.0	10431.4	11387.8	12082.3
40°	18361.0	18329.7	17581.2	16733.0	15856.4	13624.9	11555.7	10878.3	10949.5	11754.9	12230.3
42.5°	21372.4	21295.5	20006.2	18674.1	17934.1	15674.2	13024.4	11865.9	11851.7	12477.9	12751.1
45°	23774.6	23712.0	22550.7	20908.4	20316.4	18008.1	14922.8	13337.4	13232.1	13624.9	13713.1
47.5°	25075.3	25078.1	24409.3	23068.7	23054.5	20973.9	17362.0	15466.4	15284.3	15469.3	15375.3
50°	24619.9	24679.7	24608.5	24181.6	25553.5	24861.8	20546.9	18435.0	18067.9	18250.0	17888.6
52.5°	22416.9	22493.8	22915.0	23569.6	26603.7	29561.0	25226.1	22123.8	21696.8	21631.4	21230.0
55°	18511.9	18605.8	19465.4	21244.3	25729.9	32717.4	32609.3	26825.7	26145.5	25527.8	25357.1
57.5°	12759.7	12916.2	14299.5	16940.8	22903.6	33670.9	41401.3	33528.6	32145.3	29987.9	30027.7
60°	7192.4	7374.6	9005.5	11404.8	17199.8	32634.9	48089.9	43681.1	40760.9	35210.7	35506.7
62.5°	4573.9	4770.3	6008.4	7923.9	10320.4	27056.3	50830.8	57795.6	54086.9	41648.9	41939.2
65°	3702.9	3788.3	4371.8	6540.6	7494.1	16300.4	48750.2	69422.4	68039.2	49820.4	48465.6
67.5°	3614.7	3643.2	3944.9	5490.4	7186.7	9162.0	38885.2	71596.9	73131.1	57451.2	51183.8
70°	3572.0	3671.6	4445.8	5239.9	6882.2	7727.5	23367.6	65636.9	68059.1	59446.4	47566.2
72.5°	1733.4	1727.7	2237.1	4739.0	7753.1	8015.0	12005.4	53107.8	55538.5	51502.6	39087.3
75°	1397.5	1278.0	1221.0	1736.2	7454.3	8276.8	7650.7	36542.8	38301.7	34530.5	24027.9
77.5°	1326.3	1184.0	1084.4	1087.3	3150.8	8777.8	6480.9	20225.3	20737.6	15597.3	6583.3
80°	1098.6	967.7	896.6	1010.4	1525.6	8359.4	7007.4	9153.5	8399.2	3831.0	2191.6
82.5°	762.8	694.5	674.6	848.2	1221.0	5957.2	8148.8	4918.3	4124.2	1918.4	1352.0
85°	486.7	415.5	461.1	617.6	950.6	2749.5	8393.5	3833.9	3048.3	1218.2	762.8
87.5°	224.9	182.2	227.7	341.5	620.5	947.8	7986.5	4306.3	3139.4	643.2	481.0
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°	12449.4	12449.4	12449.4	12449.4	12449.4	12449.4	12449.4	12449.4	12449.4	12449.4	12449.4
2.5°	12455.1	12401.0	12358.3	12278.6	12190.4	12105.0	12028.2	11931.4	11902.9	11877.3	11917.2
5°	12495.0	12440.9	12284.3	12039.6	11769.2	11515.9	11262.5	11046.2	10912.5	10838.4	10881.1
7.5°	12554.7	12477.9	12153.4	11703.7	11217.0	10773.0	10314.7	9947.6	9677.2	9549.1	9586.1
10°	12608.8	12460.8	11931.4	11256.8	10545.3	9885.0	9162.0	8564.3	8120.3	7886.9	7943.8
12.5°	12631.6	12395.3	11621.2	10699.0	9722.7	8755.0	7690.5	6796.8	6159.2	5925.9	5877.5
15°	12654.3	12321.3	11279.6	10064.3	8729.4	7360.4	5868.9	4798.7	4269.3	4152.7	4127.0
17.5°	12660.0	12193.3	10892.5	9375.5	7565.3	5701.0	4013.2	3332.9	3335.8	3523.6	3546.4
20°	12600.3	12002.6	10422.9	8518.8	6170.6	3942.0	2755.2	2638.5	3068.2	3537.9	3594.8
22.5°	12463.6	11749.2	9890.7	7519.7	4573.9	2595.8	2131.8	2259.9	2814.9	3389.9	3455.3
25°	12290.0	11441.8	9261.6	6361.3	3028.4	1855.7	1787.4	1944.0	2319.7	2703.9	2740.9
27.5°	12053.8	11077.5	8555.8	5035.0	1966.7	1528.4	1574.0	1679.3	1833.0	2003.7	2020.8
30°	11749.2	10642.1	7801.5	3671.6	1485.7	1374.7	1440.2	1497.1	1562.6	1659.4	1667.9
32.5°	11399.2	10223.7	7027.3	2536.0	1317.8	1295.0	1346.3	1374.7	1426.0	1485.7	1491.4
35°	11106.0	9825.2	6224.7	1793.1	1246.6	1235.3	1269.4	1280.8	1329.2	1394.7	1400.3
37.5°	10938.1	9500.7	5396.5	1445.9	1198.3	1181.2	1201.1	1201.1	1269.4	1366.2	1380.4
40°	10949.5	9321.4	4568.2	1306.4	1158.4	1135.6	1138.5	1138.5	1226.7	1332.0	1340.6
42.5°	11259.7	9366.9	3833.9	1252.3	1127.1	1101.5	1087.3	1095.8	1169.8	1238.1	1243.8
45°	11988.3	9688.6	3145.1	1218.2	1095.8	1087.3	1056.0	1053.1	1081.6	1112.9	1112.9
47.5°	13183.7	10323.3	2678.3	1195.4	1070.2	1067.3	1030.3	993.3	990.5	1001.9	1001.9
50°	15127.7	11416.2	2365.2	1169.8	1053.1	1030.3	987.6	930.7	910.8	919.3	919.3
52.5°	18042.3	13365.9	2245.7	1135.6	1016.1	979.1	930.7	873.8	856.7	859.6	859.6
55°	21864.7	16360.1	2228.6	1095.8	976.3	916.5	876.6	833.9	814.0	819.7	819.7
57.5°	26535.4	20501.4	2533.1	1033.2	922.2	853.9	831.1	802.6	788.4	796.9	794.1
60°	32213.6	25920.6	3757.0	967.7	868.1	796.9	796.9	774.2	762.8	771.3	768.5
62.5°	38754.3	32145.3	5282.6	919.3	811.2	751.4	762.8	751.4	740.0	745.7	742.9
65°	44554.9	36201.2	4946.7	882.3	754.3	708.7	728.6	722.9	714.4	720.1	717.3
67.5°	44722.8	34698.4	2777.9	842.5	700.2	666.0	694.5	691.6	685.9	691.6	688.8
70°	39912.7	29299.1	1565.4	768.5	643.2	614.8	654.6	651.8	646.1	657.5	654.6
72.5°	31977.4	21261.3	1144.2	677.4	586.3	560.7	606.2	603.4	603.4	620.5	611.9
75°	18400.9	10940.9	913.6	580.6	526.6	506.6	546.5	549.3	555.0	577.8	560.7
77.5°	5245.6	3409.8	745.7	492.4	452.6	444.0	483.9	489.6	492.4	518.0	495.2
80°	1949.7	1571.1	614.8	412.7	370.0	372.9	409.9	418.4	421.2	446.9	418.4
82.5°	1243.8	1036.0	498.1	318.8	290.3	287.5	333.0	344.4	344.4	347.2	330.2
85°	725.8	620.5	375.7	230.5	204.9	196.4	247.6	267.5	259.0	253.3	241.9
87.5°	486.7	426.9	230.5	128.1	111.0	105.3	145.2	159.4	153.7	145.2	136.6
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)