

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: P194428

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194428
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-SL2-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 800mA 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: 46632 lumens
Efficiency: N/A
Efficacy: 111.3 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): 419
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

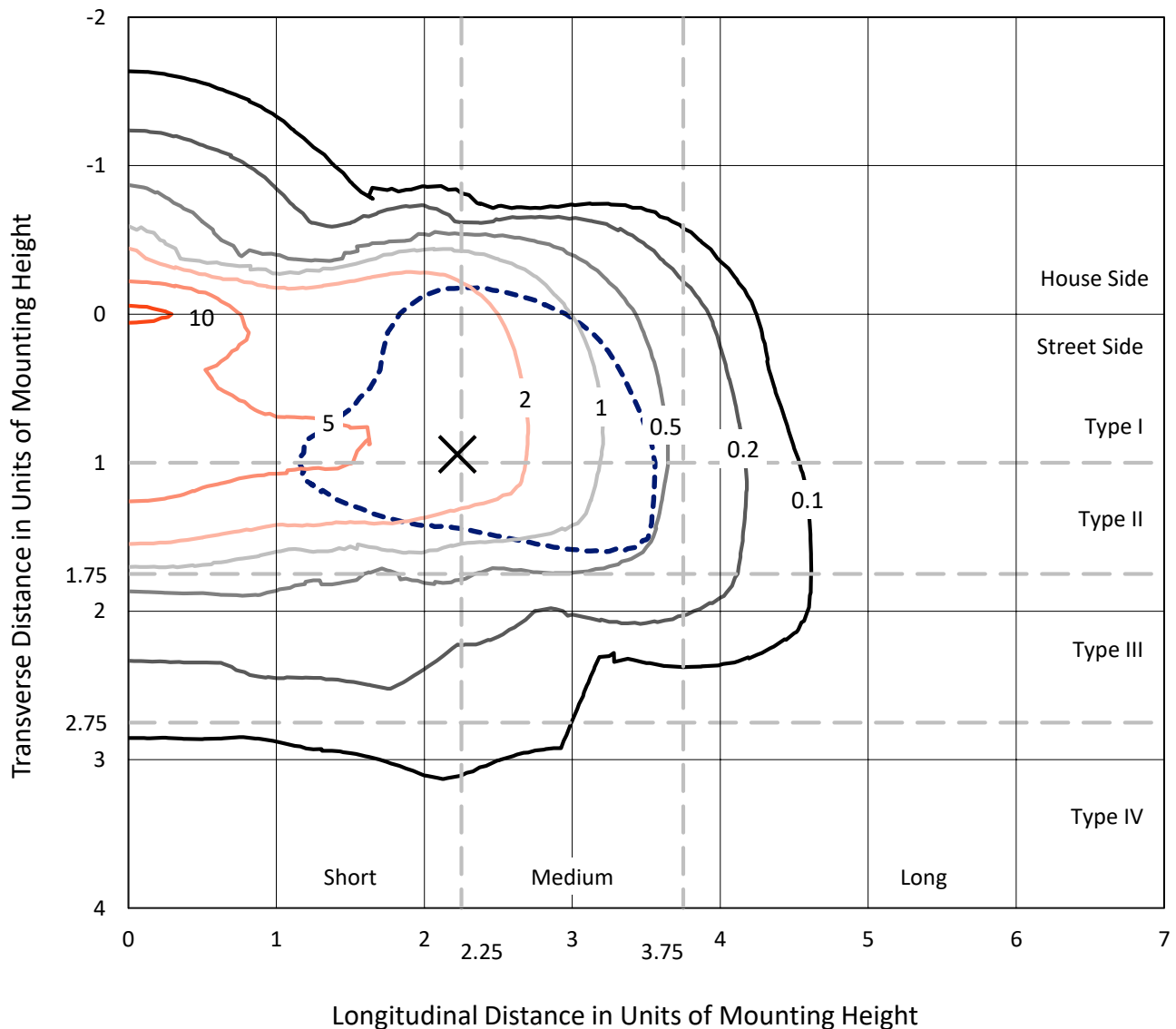


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

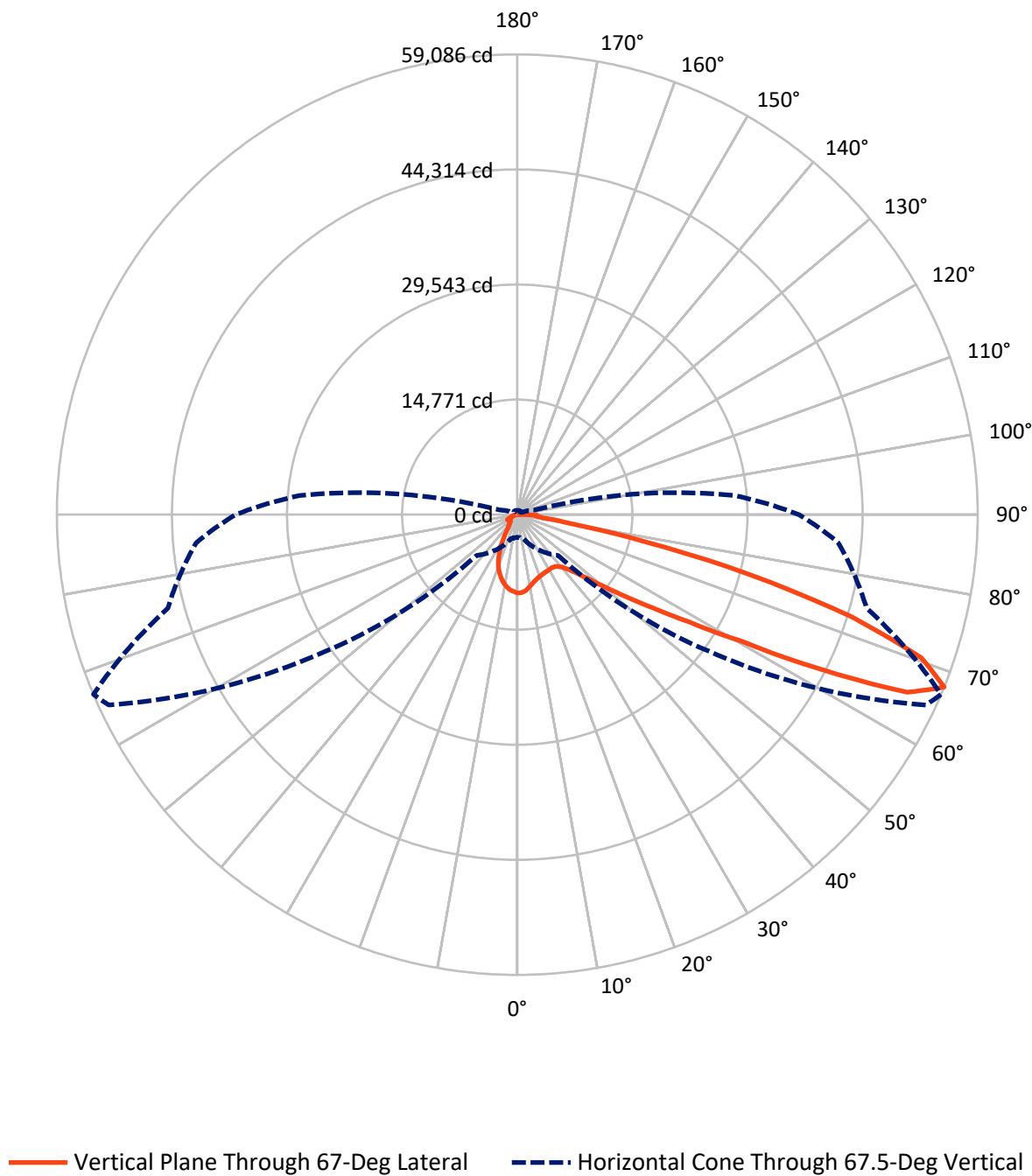


Based on 30 foot mounting height. Maximum calculated value = 11.2 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7726.4	0.0	7726.4
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	38905.6	0.0	38905.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	46632.0	0.0	46632.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	858.1	1.8
10°-20°	1985.6	4.3
20°-30°	2691.5	5.8
30°-40°	3826.2	8.2
40°-50°	6401.4	13.7
50°-60°	10127.1	21.7
60°-70°	12900.8	27.7
70°-80°	6757.4	14.5
80°-90°	1083.8	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°	46632.0	100.0
0°-180°	46632.0	100.0

Coefficient of Utilization



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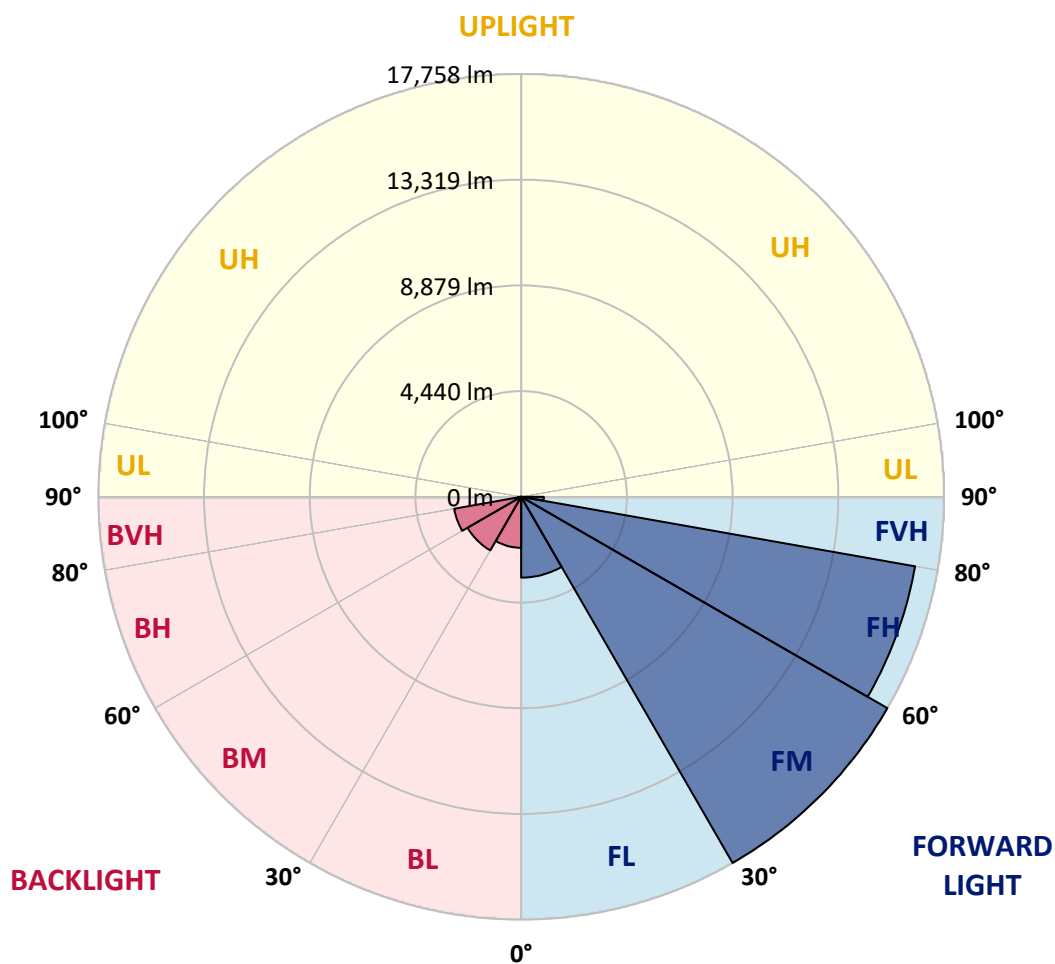
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3393.7	7.3			
FM	(30°-60°)	17758.4	38.1			
FH	(60°-80°)	16800.5	36.0			G5
FVH	(80°-90°)	953.0	2.0			G5
BL	(0°-30°)	2141.5	4.6	B3/2500		
BM	(30°-60°)	2596.3	5.6	B3/5000		
BH	(60°-80°)	2857.7	6.1	B4/5000		G4/5000
BVH	(80°-90°)	130.8	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°	10058.4	10058.4	10058.4	10058.4	10058.4	10058.4	10058.4	10058.4	10058.4	10058.4	10058.4
2.5°	9644.5	9660.6	9711.2	9743.4	9888.2	9950.3	9994.0	10037.7	10044.6	10065.3	10044.6
5°	8632.7	8667.2	8761.4	8867.2	9147.8	9368.5	9600.8	9842.2	9885.9	10042.3	10086.0
7.5°	7848.5	7839.3	7917.5	8044.0	8331.4	8637.3	9044.3	9524.9	9619.2	9971.0	10141.2
10°	7275.9	7269.0	7351.8	7482.9	7756.5	8046.3	8506.2	9163.9	9297.2	9858.3	10194.1
12.5°	6852.8	6855.1	6937.9	7082.7	7361.0	7653.0	8119.9	8814.3	8984.5	9727.3	10249.3
15°	6572.2	6590.6	6657.3	6811.4	7082.7	7374.8	7832.4	8552.2	8743.0	9623.8	10311.4
17.5°	6477.9	6507.8	6530.8	6643.5	6875.8	7167.8	7616.2	8359.0	8561.4	9552.5	10366.6
20°	6565.3	6599.8	6556.1	6595.2	6742.4	7000.0	7446.1	8207.2	8414.2	9472.0	10373.5
22.5°	6940.2	6972.4	6843.6	6730.9	6721.7	6878.1	7305.8	8087.7	8301.5	9412.2	10375.8
25°	7600.1	7620.8	7404.7	7142.5	6887.3	6834.4	7206.9	8004.9	8232.5	9359.3	10332.1
27.5°	8409.6	8425.7	8177.3	7791.0	7278.2	6937.9	7172.4	7956.6	8193.4	9313.3	10258.5
30°	9393.8	9469.7	9136.3	8648.8	7901.4	7243.7	7241.4	7931.3	8149.7	9235.2	10113.6
32.5°	10401.0	10433.2	10203.3	9708.9	8740.7	7781.8	7434.6	7949.7	8138.3	9140.9	9929.6
35°	11422.1	11463.5	11314.0	10916.2	9888.2	8570.6	7811.7	8057.8	8209.5	9108.7	9800.9
37.5°	12744.3	12799.5	12592.6	12132.6	11284.1	9639.9	8439.5	8329.1	8428.0	9200.7	9761.8
40°	14834.7	14809.4	14204.6	13519.3	12811.0	11008.1	9336.3	8789.0	8846.5	9497.3	9881.3
42.5°	17267.6	17205.5	16163.8	15087.6	14489.7	12663.8	10522.9	9587.0	9575.5	10081.4	10302.2
45°	19208.5	19157.9	18219.7	16892.8	16414.5	14549.5	12056.8	10775.9	10690.8	11008.1	11079.4
47.5°	20259.4	20261.7	19721.3	18638.2	18626.7	16945.7	14027.5	12496.0	12348.8	12498.3	12422.4
50°	19891.5	19939.7	19882.3	19537.3	20645.7	20086.9	16600.7	14894.4	14597.8	14745.0	14452.9
52.5°	18111.6	18173.7	18514.0	19042.9	21494.3	23883.5	20381.3	17874.7	17529.8	17476.9	17152.6
55°	14956.5	15032.4	15726.9	17164.1	20788.3	26433.8	26346.4	21673.6	21124.0	20625.0	20487.1
57.5°	10309.1	10435.5	11553.1	13687.2	18504.8	27204.2	33449.8	27089.2	25971.6	24228.5	24260.7
60°	5811.1	5958.2	7275.9	9214.5	13896.4	26367.1	38853.9	35291.8	32932.4	28448.2	28687.4
62.5°	3695.4	3854.1	4854.4	6402.1	8338.3	21859.9	41068.4	46695.5	43699.1	33649.9	33884.5
65°	2991.8	3060.8	3532.2	5284.5	6054.8	13169.8	39387.4	56089.3	54971.7	40252.0	39157.4
67.5°	2920.5	2943.5	3187.2	4435.9	5806.5	7402.4	31417.0	57846.2	59085.7	46417.2	41353.5
70°	2886.0	2966.5	3592.0	4233.5	5560.4	6243.4	18879.6	53030.9	54987.8	48029.2	38430.8
72.5°	1400.5	1395.9	1807.5	3828.8	6264.1	6475.6	9699.7	42908.1	44871.9	41611.1	31580.3
75°	1129.1	1032.5	986.5	1402.8	6022.6	6687.2	6181.3	29524.4	30945.6	27898.6	19413.1
77.5°	1071.6	956.6	876.1	878.4	2545.6	7091.9	5236.2	16340.9	16754.8	12601.8	5319.0
80°	887.6	781.9	724.4	816.4	1232.6	6753.9	5661.6	7395.5	6786.1	3095.2	1770.7
82.5°	616.3	561.1	545.0	685.3	986.5	4813.0	6583.7	3973.7	3332.1	1549.9	1092.3
85°	393.2	335.7	372.5	499.0	768.1	2221.4	6781.5	3097.5	2462.9	984.2	616.3
87.5°	181.7	147.2	184.0	276.0	501.3	765.8	6452.7	3479.3	2536.4	519.7	388.6
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°	10058.4	10058.4	10058.4	10058.4	10058.4	10058.4	10058.4	10058.4	10058.4	10058.4	10058.4
2.5°	10063.0	10019.3	9984.8	9920.4	9849.1	9780.2	9718.1	9639.9	9616.9	9596.2	9628.4
5°	10095.2	10051.5	9925.0	9727.3	9508.8	9304.1	9099.5	8924.7	8816.6	8756.8	8791.3
7.5°	10143.5	10081.4	9819.3	9455.9	9062.7	8703.9	8333.7	8037.1	7818.6	7715.1	7745.0
10°	10187.2	10067.6	9639.9	9094.9	8520.0	7986.5	7402.4	6919.5	6560.7	6372.2	6418.2
12.5°	10205.6	10014.7	9389.2	8644.2	7855.4	7073.5	6213.5	5491.4	4976.3	4787.7	4748.7
15°	10224.0	9954.9	9113.3	8131.4	7052.8	5946.7	4741.8	3877.1	3449.4	3355.1	3334.4
17.5°	10228.6	9851.4	8800.5	7574.9	6112.3	4606.1	3242.4	2692.8	2695.1	2846.9	2865.3
20°	10180.3	9697.4	8421.1	6882.7	4985.5	3184.9	2226.0	2131.7	2479.0	2858.4	2904.4
22.5°	10069.9	9492.7	7991.1	6075.5	3695.4	2097.2	1722.4	1825.9	2274.3	2738.8	2791.7
25°	9929.6	9244.4	7482.9	5139.6	2446.8	1499.3	1444.1	1570.6	1874.2	2184.6	2214.5
27.5°	9738.8	8950.0	6912.6	4068.0	1589.0	1234.9	1271.7	1356.8	1480.9	1618.9	1632.7
30°	9492.7	8598.2	6303.2	2966.5	1200.4	1110.7	1163.6	1209.6	1262.5	1340.7	1347.6
32.5°	9209.9	8260.1	5677.7	2048.9	1064.7	1046.3	1087.7	1110.7	1152.1	1200.4	1205.0
35°	8973.0	7938.2	5029.2	1448.7	1007.2	998.0	1025.6	1034.8	1073.9	1126.8	1131.4
37.5°	8837.3	7676.0	4360.0	1168.2	968.1	954.3	970.4	970.4	1025.6	1103.8	1115.3
40°	8846.5	7531.2	3690.8	1055.5	935.9	917.5	919.8	919.8	991.1	1076.2	1083.1
42.5°	9097.2	7568.0	3097.5	1011.8	910.6	889.9	878.4	885.3	945.1	1000.3	1004.9
45°	9685.9	7827.8	2541.0	984.2	885.3	878.4	853.1	850.8	873.8	899.1	899.1
47.5°	10651.7	8340.6	2163.9	965.8	864.6	862.3	832.5	802.6	800.3	809.5	809.5
50°	12222.3	9223.7	1911.0	945.1	850.8	832.5	798.0	752.0	735.9	742.8	742.8
52.5°	14577.1	10798.9	1814.4	917.5	821.0	791.1	752.0	706.0	692.2	694.5	694.5
55°	17665.5	13218.0	1800.6	885.3	788.8	740.5	708.3	673.8	657.7	662.3	662.3
57.5°	21439.1	16563.9	2046.6	834.8	745.1	689.9	671.5	648.5	637.0	643.9	641.6
60°	26026.8	20942.4	3035.5	781.9	701.4	643.9	643.9	625.5	616.3	623.2	620.9
62.5°	31311.2	25971.6	4268.0	742.8	655.4	607.1	616.3	607.1	597.9	602.5	600.2
65°	35997.8	29248.5	3996.7	712.9	609.4	572.6	588.7	584.1	577.2	581.8	579.5
67.5°	36133.5	28034.3	2244.4	680.7	565.7	538.1	561.1	558.8	554.2	558.8	556.5
70°	32247.2	23672.0	1264.8	620.9	519.7	496.7	528.9	526.6	522.0	531.2	528.9
72.5°	25835.9	17177.9	924.4	547.3	473.7	453.0	489.8	487.5	487.5	501.3	494.4
75°	14866.9	8839.6	738.2	469.1	425.4	409.3	441.5	443.8	448.4	466.8	453.0
77.5°	4238.1	2754.9	602.5	397.8	365.6	358.7	390.9	395.5	397.8	418.5	400.1
80°	1575.2	1269.4	496.7	333.4	298.9	301.2	331.1	338.0	340.3	361.0	338.0
82.5°	1004.9	837.1	402.4	257.6	234.6	232.3	269.1	278.3	278.3	280.6	266.8
85°	586.4	501.3	303.5	186.3	165.6	158.7	200.1	216.2	209.3	204.7	195.5
87.5°	393.2	344.9	186.3	103.5	89.7	85.1	117.3	128.8	124.2	117.3	110.4
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)