

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: P192898

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37545.8 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 323
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



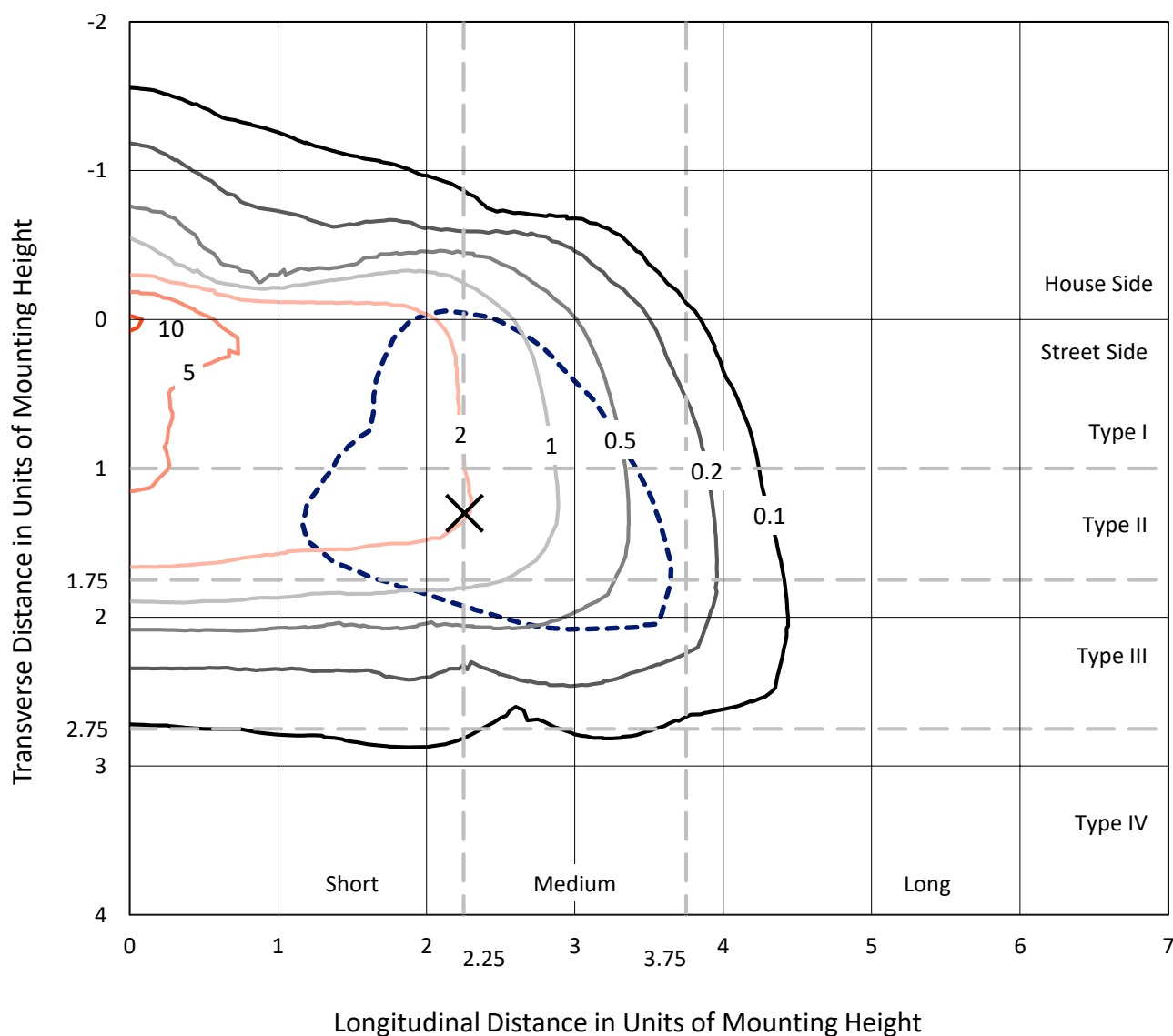
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

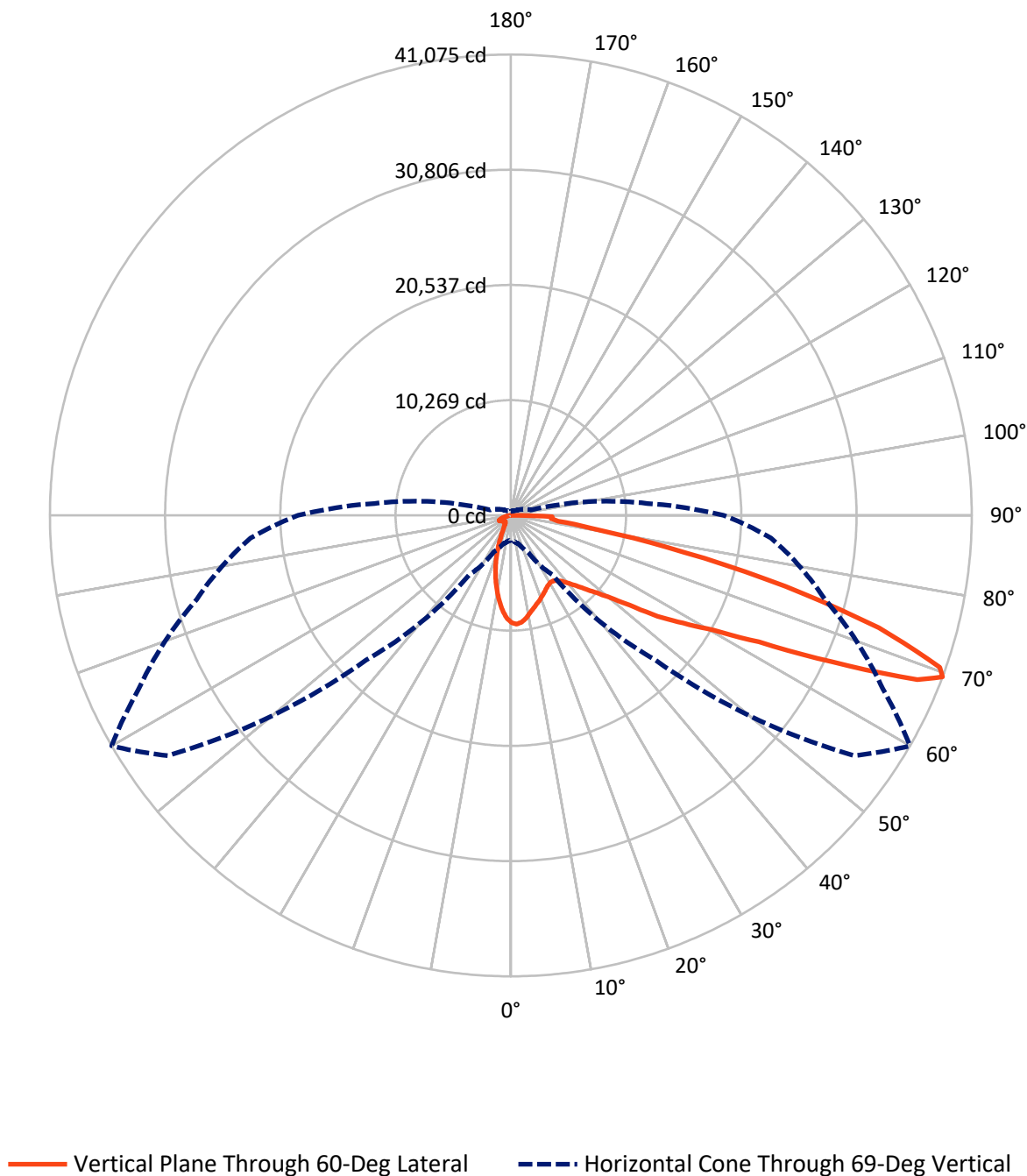


Based on 30 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5341.6	0.0	5341.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	32204.2	0.0	32204.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	37545.8	0.0	37545.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	808.9	2.2
10°-20°	1723.5	4.6
20°-30°	2196.1	5.8
30°-40°	3019.0	8.0
40°-50°	4898.7	13.0
50°-60°	7856.2	20.9
60°-70°	10456.0	27.8
70°-80°	5645.4	15.0
80°-90°	942.0	2.5
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°	37545.8	100.0
0°-180°	37545.8	100.0

Coefficient of Utilization



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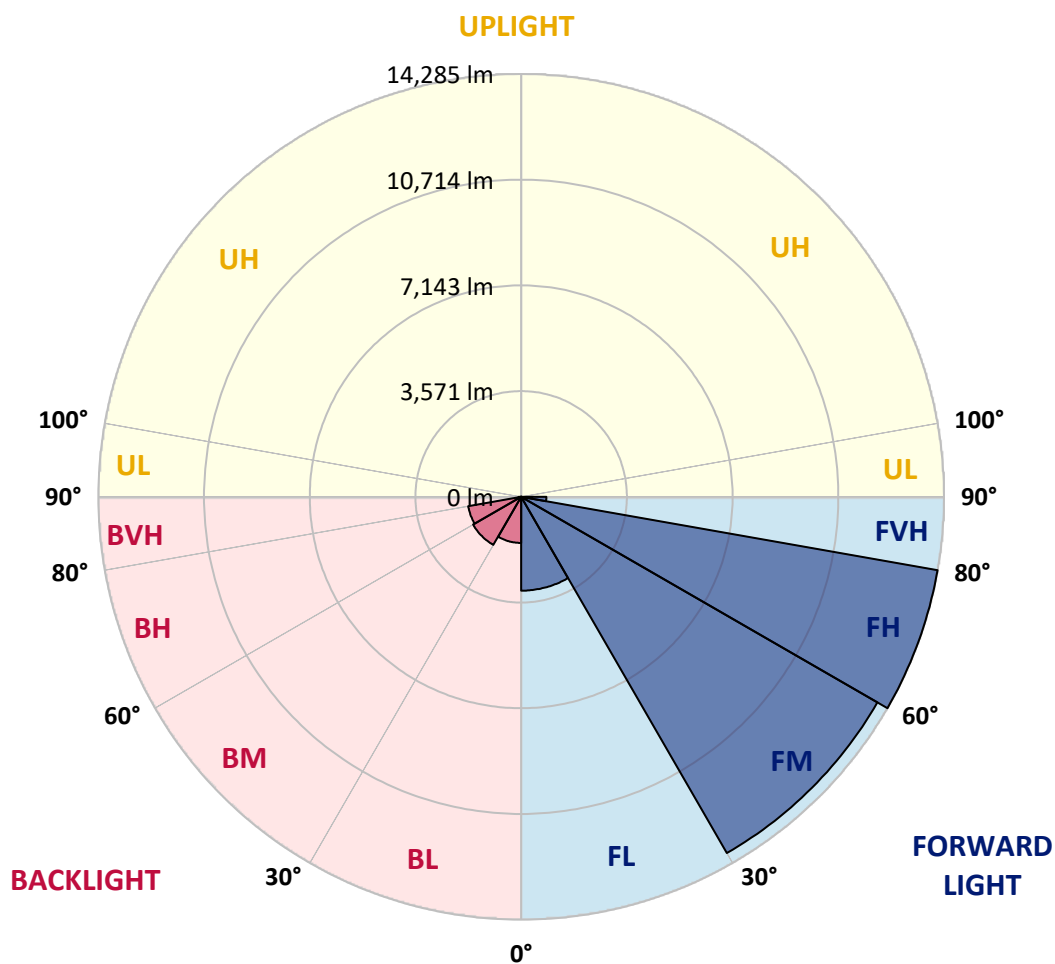
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3170.2	8.4			
FM	(30°-60°)	13897.3	37.0			
FH	(60°-80°)	14285.5	38.0			G5
FVH	(80°-90°)	851.3	2.3			G5
BL	(0°-30°)	1558.3	4.2	B3/2500		
BM	(30°-60°)	1876.6	5.0	B2/2500		
BH	(60°-80°)	1816.0	4.8	B3/2500		G3/2500
BVH	(80°-90°)	90.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	9567.3	9567.3	9567.3	9567.3	9567.3	9567.3	9567.3	9567.3	9567.3	9567.3	9567.3
2.5°	9763.1	9784.9	9775.9	9770.4	9786.7	9761.3	9708.7	9692.4	9667.0	9607.1	9505.5
5°	9396.8	9462.1	9458.5	9507.4	9589.0	9610.8	9587.2	9590.8	9543.7	9469.3	9300.5
7.5°	8763.8	8791.0	8805.5	8912.5	9061.2	9180.9	9282.4	9315.1	9293.4	9229.9	9012.2
10°	8110.9	8132.6	8167.1	8292.2	8480.8	8645.9	8838.2	8948.8	8996.0	8985.1	8742.1
12.5°	7550.5	7572.2	7617.5	7759.0	7983.9	8187.1	8466.4	8604.1	8716.6	8783.8	8522.6
15°	7048.0	7095.2	7138.7	7301.9	7554.0	7820.7	8136.2	8310.4	8484.5	8635.0	8328.5
17.5°	6656.3	6703.4	6728.8	6877.6	7146.0	7472.5	7842.4	8047.4	8265.0	8511.8	8136.2
20°	6429.6	6451.3	6440.4	6523.9	6765.2	7111.4	7550.5	7788.0	8051.0	8395.6	7944.0
22.5°	6366.1	6367.8	6328.0	6318.9	6474.9	6766.9	7238.4	7526.9	7849.7	8319.4	7778.9
25°	6520.3	6514.8	6406.0	6317.2	6333.4	6503.8	6937.4	7273.0	7681.0	8303.1	7652.0
27.5°	6863.0	6879.4	6718.0	6551.0	6385.9	6380.6	6708.8	7062.5	7543.2	8377.5	7597.6
30°	7343.7	7370.8	7198.5	6986.4	6676.2	6420.5	6620.0	6937.4	7457.9	8531.6	7588.5
32.5°	7869.6	7898.7	7768.2	7545.0	7138.7	6667.1	6681.6	6948.3	7454.3	8747.6	7650.3
35°	8430.1	8462.6	8395.6	8207.0	7755.3	7122.4	6917.4	7124.2	7572.2	9077.6	7815.2
37.5°	9055.9	9106.5	9124.7	8945.2	8462.6	7722.8	7303.8	7457.9	7838.8	9536.3	8118.1
40°	9957.3	10028.0	10022.5	9764.9	9273.4	8533.4	7900.4	7940.4	8254.1	10149.4	8602.4
42.5°	11683.8	11698.4	11246.7	10686.3	10165.8	9385.9	8604.1	8571.5	8827.3	10925.7	9315.1
45°	13880.2	13820.4	12815.6	11732.8	11098.0	10365.3	9520.1	9360.5	9554.5	11872.4	10207.4
47.5°	15703.0	15565.2	14295.6	12801.1	12084.6	11429.9	10595.6	10316.3	10423.4	12946.1	11361.0
50°	16336.0	16232.5	15180.7	13689.7	13018.7	12728.4	11919.6	11524.2	11553.3	14226.6	12712.2
52.5°	16200.0	16185.4	15483.5	14275.6	13893.0	14092.5	13795.0	13259.9	12977.0	15648.5	14170.4
55°	15878.8	15909.8	15655.9	14957.6	14892.2	15409.2	16245.3	15849.9	14970.2	17083.2	15677.6
57.5°	14763.5	14843.3	15402.0	15815.4	16501.0	17270.1	18218.6	18106.1	17115.9	18633.9	17469.6
60°	11894.2	12079.2	13577.3	15648.5	18156.9	20561.9	20986.3	20725.2	19328.6	20558.2	19836.4
62.5°	8334.0	8526.1	10307.2	13548.3	17884.8	24279.9	25934.1	24807.8	22506.2	23393.1	22899.7
65°	4461.7	4554.2	5914.4	9400.3	15099.1	25047.1	33165.3	31451.4	27537.3	26888.0	25520.6
67.5°	2461.2	2512.0	3032.5	4746.4	9670.6	22056.3	37772.0	39067.1	33825.5	29215.1	25043.6
69°	2225.4	2272.6	2613.6	3594.7	6471.3	18236.7	37322.3	41074.8	36582.3	28984.8	23280.6
70°	2176.5	2219.9	2526.5	3313.7	5238.0	15031.9	35815.0	40561.5	37238.9	28159.5	21742.6
72.5°	1958.8	2006.0	2303.4	2976.3	4476.3	7494.2	28369.8	34295.2	33809.1	24415.9	16491.9
75°	1826.4	1870.0	2374.1	2914.6	4285.8	4742.8	18702.9	25275.7	24853.1	17079.6	8892.6
77.5°	781.7	778.0	1100.9	2466.6	4349.3	4592.2	10049.6	15790.0	14406.2	7300.1	2553.7
80°	522.4	513.3	522.4	725.5	3988.3	4617.7	5265.2	8014.7	6054.2	1860.9	1258.6
82.5°	449.8	442.5	458.9	442.5	1402.1	5270.5	4476.3	4262.2	2878.3	1057.4	623.9
85°	302.8	290.2	395.4	397.1	662.0	4683.0	5042.1	3600.2	2328.8	627.5	308.3
87.5°	145.1	141.5	230.3	281.2	388.1	1902.5	5656.9	3689.0	2348.7	321.0	147.0
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°	9567.3	9567.3	9567.3	9567.3	9567.3	9567.3	9567.3	9567.3	9567.3	9567.3	9567.3
2.5°	9474.8	9400.3	9327.8	9240.8	9150.1	9048.6	8997.7	8947.0	8934.2	8919.8	8869.0
5°	9213.7	9108.4	8927.0	8727.5	8517.1	8312.2	8156.2	8058.3	7983.9	7945.8	7878.6
7.5°	8876.2	8722.0	8404.7	8060.0	7706.4	7383.5	7104.2	6928.3	6761.5	6683.5	6594.6
10°	8555.2	8324.9	7831.6	7323.7	6815.9	6328.0	5869.1	5544.5	5256.1	5094.6	4980.4
12.5°	8279.5	7963.9	7280.2	6592.8	5896.2	5201.8	4514.3	3973.8	3522.2	3284.6	3163.0
15°	8011.1	7630.2	6756.0	5883.6	4989.5	4044.6	3141.3	2528.3	2154.7	2006.0	1955.2
17.5°	7768.2	7280.2	6230.1	5169.0	4053.6	2911.0	2111.1	1773.9	1630.4	1581.5	1565.2
20°	7505.1	6926.5	5684.1	4421.8	3077.9	2035.0	1648.6	1499.9	1441.9	1427.4	1420.2
22.5°	7251.2	6578.3	5161.7	3622.0	2210.9	1570.7	1416.5	1354.9	1345.7	1358.4	1358.4
25°	7035.3	6266.3	4597.7	2785.9	1623.3	1322.1	1267.7	1253.3	1287.7	1334.9	1344.0
27.5°	6873.9	6010.6	3997.4	2056.7	1293.2	1149.9	1148.1	1171.7	1256.9	1347.6	1365.7
30°	6763.2	5767.6	3355.4	1483.6	1084.6	1012.1	1041.0	1091.8	1217.0	1345.7	1380.3
32.5°	6707.1	5587.9	2686.1	1148.1	928.6	888.8	937.7	999.4	1122.6	1242.4	1287.7
35°	6750.6	5455.7	2054.9	957.6	819.8	789.0	839.7	899.6	972.2	1022.8	1057.4
37.5°	6913.8	5403.0	1550.7	857.9	745.4	716.4	756.3	790.8	819.8	834.3	850.6
40°	7265.6	5459.2	1242.4	807.1	703.7	667.5	683.8	696.4	714.5	729.1	736.4
42.5°	7784.4	5628.0	1113.6	787.1	682.0	629.4	625.7	631.2	654.8	682.0	687.4
45°	8509.8	5925.3	1104.5	799.9	671.1	598.5	582.3	589.5	625.7	667.5	674.6
47.5°	9436.6	6378.8	1177.0	837.9	680.1	582.3	555.0	564.1	609.4	665.6	674.6
50°	10559.4	7011.7	1298.6	894.2	720.0	585.8	546.0	551.3	598.5	660.2	669.2
52.5°	11885.1	7909.5	1431.0	948.6	761.7	609.4	553.2	540.5	584.0	638.4	649.3
55°	13359.6	9061.2	1567.0	997.5	783.5	638.4	567.7	526.0	556.7	602.1	611.2
57.5°	15169.8	10671.8	1802.8	1044.7	798.0	658.4	582.3	511.5	522.4	555.0	562.2
60°	17620.0	12949.9	2218.2	1122.6	830.7	665.6	580.3	498.8	487.9	506.0	509.7
62.5°	20556.5	15423.7	2564.6	1220.7	885.1	671.1	569.5	489.7	458.9	458.9	462.5
65°	22299.4	16085.7	2372.3	1302.3	930.5	665.6	556.7	480.6	437.1	417.2	419.0
67.5°	20821.2	14146.9	2033.2	1318.5	928.6	640.3	536.9	464.4	415.3	384.5	382.7
69°	18969.5	12206.2	1880.8	1275.0	885.1	607.6	511.5	446.3	399.1	366.3	364.6
70°	17476.8	11021.8	1781.0	1227.8	837.9	584.0	491.5	429.8	386.3	355.5	351.9
72.5°	12706.8	7222.1	1521.7	1055.6	691.1	489.7	424.4	377.3	344.6	326.4	322.9
75°	6349.7	3444.2	1235.1	856.0	529.6	391.8	348.2	315.5	299.3	295.6	293.8
77.5°	2085.8	1577.9	883.3	638.4	393.6	306.5	281.2	257.6	253.9	264.9	261.1
80°	1146.2	917.8	560.4	422.7	268.4	224.8	221.2	208.5	214.0	232.1	228.6
82.5°	584.0	477.0	346.5	253.9	181.4	161.3	175.9	168.7	175.9	192.3	190.4
85°	288.3	261.1	219.5	154.2	119.7	103.4	125.1	130.6	134.2	147.0	147.0
87.5°	166.8	154.2	116.1	72.5	59.9	54.4	72.5	70.7	83.5	90.6	88.8
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)