

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: P193726

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193726
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-08-LED-E1-SL3-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA 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: 42706 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 511
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

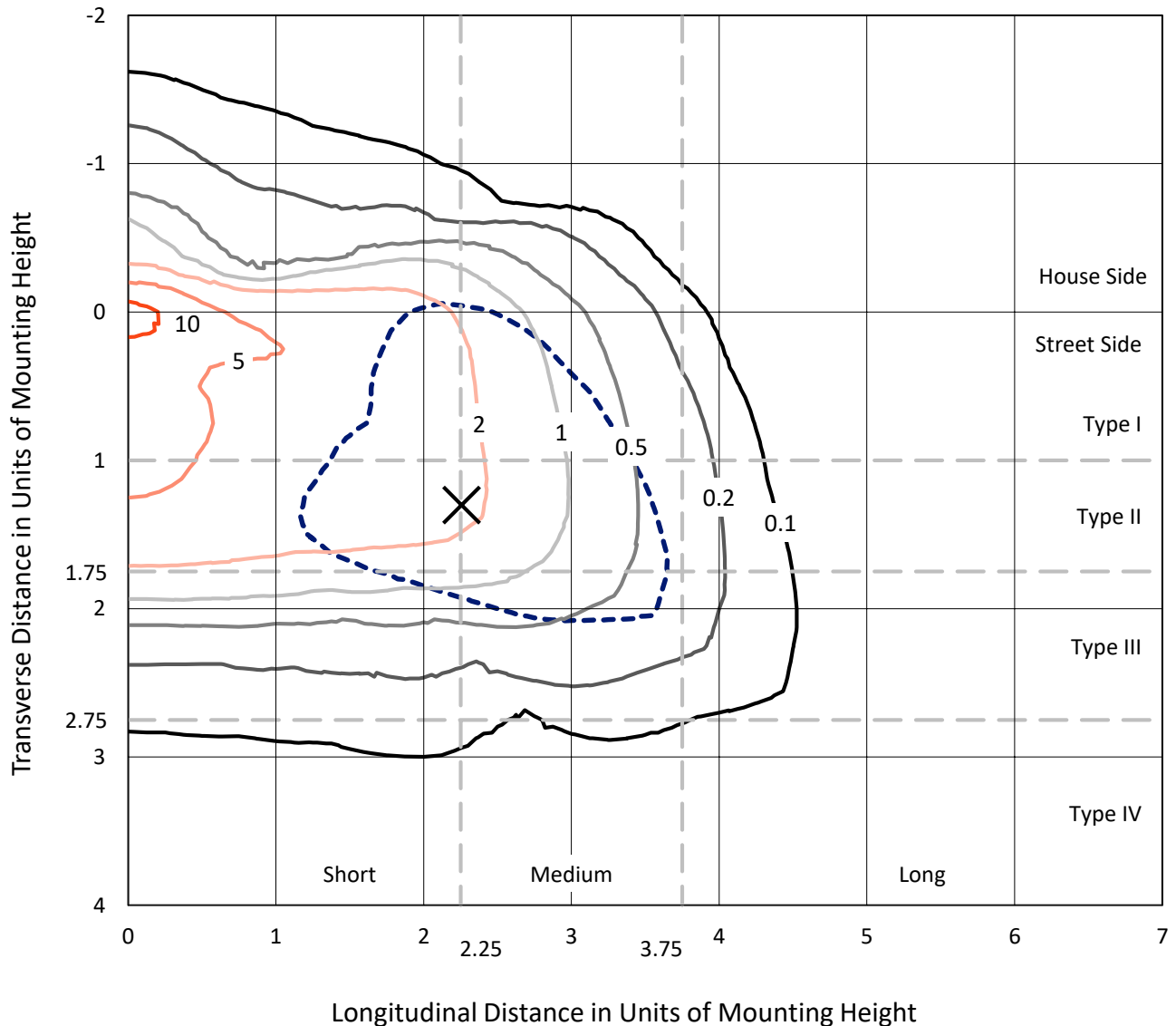


REPORT NUMBER: P193726

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-8030-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

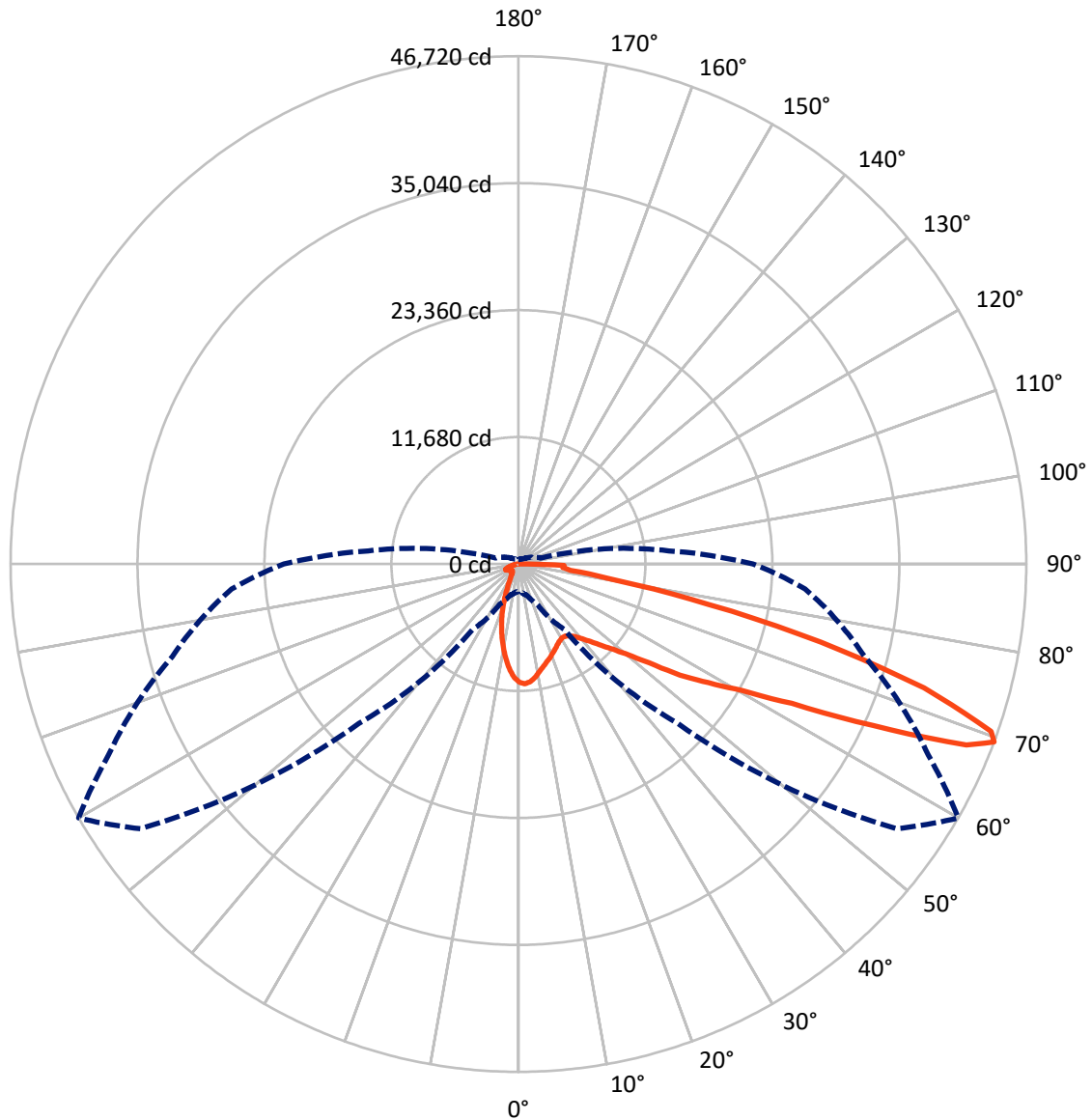


Based on 30 foot mounting height. Maximum calculated value = 12.1 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P193726

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-8030-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P193726

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-8030-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6075.7	0.0	6075.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	36630.3	0.0	36630.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	42706.0	0.0	42706.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	920.1	2.2
10°-20°	1960.4	4.6
20°-30°	2497.9	5.8
30°-40°	3433.9	8.0
40°-50°	5571.9	13.0
50°-60°	8935.9	20.9
60°-70°	11893.0	27.8
70°-80°	6421.3	15.0
80°-90°	1071.4	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°	42706.0	100.0
0°-180°	42706.0	100.0

Coefficient of Utilization



REPORT NUMBER: P193726

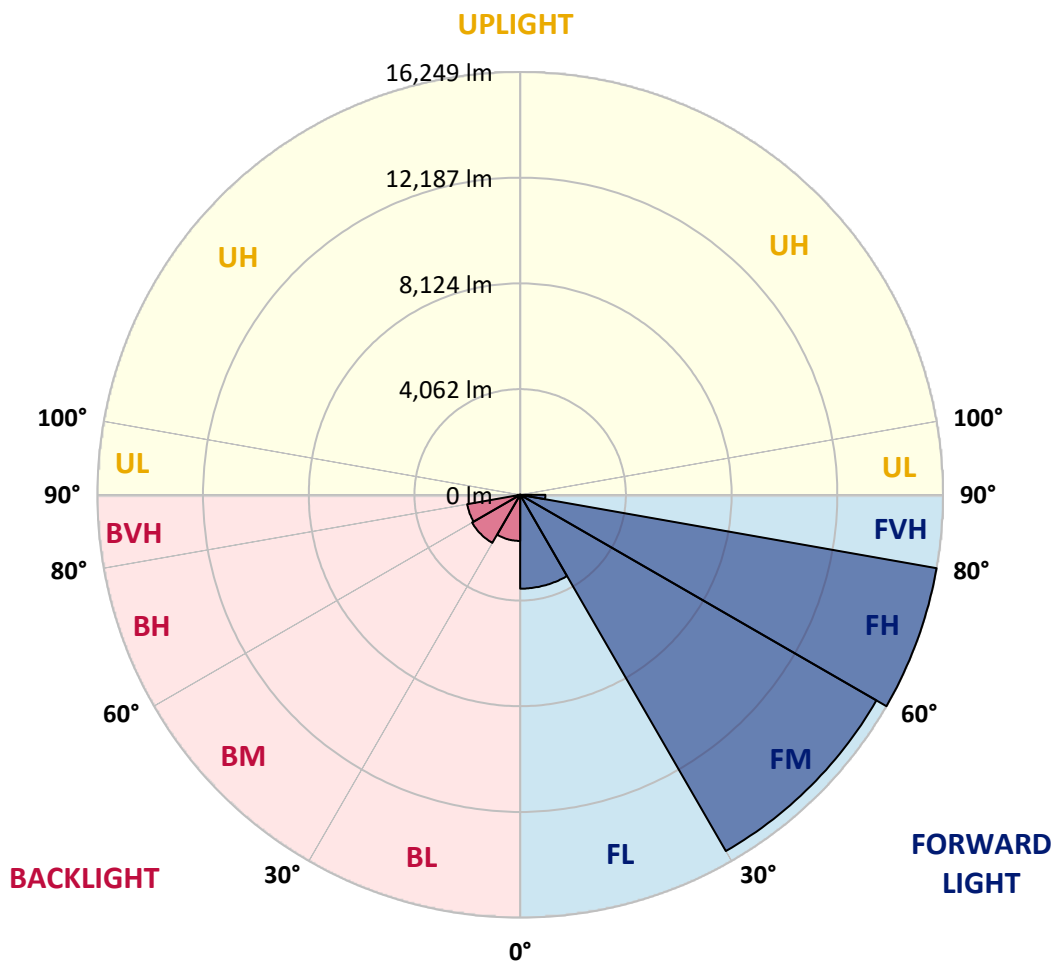
CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-8030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3605.9	8.4			
FM (30°-60°)	15807.3	37.0			
FH (60°-80°)	16248.8	38.0			G5
FVH (80°-90°)	968.3	2.3			G5
BL (0°-30°)	1772.5	4.2	B3/2500		
BM (30°-60°)	2134.5	5.0	B2/2500		
BH (60°-80°)	2065.6	4.8	B3/2500		G3/2500
BVH (80°-90°)	103.2	0.2			G2/225
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





REPORT NUMBER: P193726

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-8030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	10882.1	10882.1	10882.1	10882.1	10882.1	10882.1	10882.1	10882.1	10882.1	10882.1	10882.1
2.5°	11104.9	11129.7	11119.4	11113.2	11131.8	11102.9	11043.0	11024.5	10995.6	10927.5	10812.0
5°	10688.2	10762.5	10758.4	10814.1	10906.9	10931.6	10904.8	10909.0	10855.3	10770.7	10578.9
7.5°	9968.2	9999.2	10015.7	10137.4	10306.6	10442.7	10558.3	10595.4	10570.6	10498.4	10250.9
10°	9225.6	9250.3	9289.5	9431.9	9646.4	9834.2	10052.8	10178.7	10232.3	10219.9	9943.5
12.5°	8588.1	8612.9	8664.5	8825.4	9081.2	9312.2	9629.9	9786.7	9914.6	9990.9	9693.9
15°	8016.7	8070.3	8119.8	8305.5	8592.2	8895.5	9254.5	9452.5	9650.5	9821.8	9473.1
17.5°	7571.1	7624.7	7653.6	7822.8	8128.1	8499.4	8920.3	9153.4	9400.9	9681.5	9254.5
20°	7313.2	7338.0	7325.6	7420.5	7694.9	8088.9	8588.1	8858.4	9157.5	9549.5	9035.8
22.5°	7241.0	7243.1	7197.7	7187.4	7364.8	7696.9	8233.3	8561.3	8928.5	9462.8	8848.1
25°	7416.4	7410.2	7286.4	7185.3	7203.9	7397.8	7890.8	8272.5	8736.7	9444.3	8703.6
27.5°	7806.3	7824.8	7641.2	7451.4	7263.7	7257.5	7630.9	8033.2	8579.9	9528.8	8641.8
30°	8352.9	8383.9	8187.9	7946.5	7593.8	7302.9	7529.8	7890.8	8482.9	9704.2	8631.4
32.5°	8951.2	8984.2	8835.7	8581.9	8119.8	7583.5	7600.0	7903.2	8478.8	9949.7	8701.6
35°	9588.7	9625.8	9549.5	9334.9	8821.2	8101.3	7868.1	8103.3	8612.9	10325.1	8889.3
37.5°	10300.4	10358.1	10378.8	10174.5	9625.8	8784.1	8307.6	8482.9	8916.1	10847.1	9233.8
40°	11325.7	11406.1	11399.9	11107.0	10547.9	9706.2	8986.3	9031.7	9388.6	11544.3	9784.6
42.5°	13289.6	13306.1	12792.4	12155.0	11562.9	10675.8	9786.7	9749.6	10040.4	12427.3	10595.4
45°	15787.9	15719.8	14576.9	13345.3	12623.3	11789.8	10828.5	10647.0	10867.7	13504.2	11610.4
47.5°	17861.1	17704.4	16260.3	14560.4	13745.5	13000.8	12051.8	11734.1	11855.9	14725.4	12922.4
50°	18581.1	18463.5	17267.0	15571.3	14808.0	14477.9	13557.8	13108.1	13141.1	16181.9	14459.3
52.5°	18426.4	18409.9	17611.5	16237.6	15802.3	16029.2	15690.9	15082.3	14760.5	17799.3	16117.9
55°	18061.3	18096.3	17807.5	17013.3	16939.0	17526.9	18478.0	18028.2	17027.7	19431.1	17832.3
57.5°	16792.5	16883.3	17518.7	17989.0	18768.9	19643.5	20722.5	20594.6	19468.2	21194.9	19870.5
60°	13528.9	13739.3	15443.4	17799.3	20652.3	23387.8	23870.6	23573.5	21985.0	23383.7	22562.6
62.5°	9479.3	9698.0	11723.8	15410.3	20342.9	27616.9	29498.3	28217.2	25599.3	26608.1	26047.0
65°	5074.9	5180.1	6727.3	10692.3	17174.2	28489.5	37723.4	35773.9	31322.0	30583.4	29028.0
67.5°	2799.4	2857.2	3449.3	5398.8	10999.7	25087.7	42963.3	44436.3	38474.3	33230.2	28485.4
69°	2531.3	2584.9	2972.7	4088.8	7360.7	20743.1	42451.7	46720.0	41610.0	32968.2	26480.2
70°	2475.6	2525.1	2873.7	3769.0	5957.8	17097.8	40737.4	46136.1	42356.8	32029.6	24730.8
72.5°	2228.0	2281.6	2620.0	3385.3	5091.4	8524.2	32268.9	39008.6	38455.7	27771.6	18758.5
75°	2077.4	2126.9	2700.4	3315.2	4874.8	5394.7	21273.3	28749.5	28268.8	19426.9	10114.7
77.5°	889.1	885.0	1252.2	2805.6	4947.0	5223.4	11430.9	17960.2	16386.1	8303.4	2904.7
80°	594.1	583.8	594.1	825.2	4536.5	5252.3	5988.8	9116.2	6886.2	2116.6	1431.7
82.5°	511.6	503.4	521.9	503.4	1594.7	5995.0	5091.4	4848.0	3273.9	1202.7	709.7
85°	344.5	330.1	449.7	451.8	753.0	5326.6	5735.0	4095.0	2648.8	713.8	350.7
87.5°	165.0	160.9	262.0	319.8	441.5	2164.0	6434.4	4196.1	2671.5	365.1	167.1
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: P193726

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-8030-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10882.1	10882.1	10882.1	10882.1	10882.1	10882.1	10882.1	10882.1	10882.1	10882.1	10882.1
2.5°	10776.9	10692.3	10609.8	10510.8	10407.7	10292.1	10234.4	10176.6	10162.2	10145.7	10087.9
5°	10479.9	10360.2	10153.9	9927.0	9687.7	9454.6	9277.2	9165.8	9081.2	9037.8	8961.5
7.5°	10096.1	9920.8	9559.8	9167.8	8765.5	8398.3	8080.6	7880.5	7690.7	7602.0	7500.9
10°	9731.0	9469.0	8907.9	8330.3	7752.6	7197.7	6675.8	6306.5	5978.5	5794.9	5664.9
12.5°	9417.4	9058.5	8280.7	7498.9	6706.7	5916.6	5134.7	4520.0	4006.3	3736.0	3597.8
15°	9112.1	8678.9	7684.5	6692.3	5675.2	4600.4	3573.1	2875.8	2450.8	2281.6	2223.9
17.5°	8835.7	8280.7	7086.3	5879.4	4610.7	3311.1	2401.3	2017.6	1854.6	1798.9	1780.3
20°	8536.5	7878.5	6465.3	5029.5	3500.9	2314.6	1875.2	1706.1	1640.1	1623.6	1615.3
22.5°	8247.7	7482.4	5871.2	4119.7	2514.8	1786.5	1611.2	1541.0	1530.7	1545.2	1545.2
25°	8002.2	7127.5	5229.6	3168.7	1846.4	1503.9	1442.0	1425.5	1464.7	1518.3	1528.7
27.5°	7818.6	6836.7	4546.8	2339.4	1470.9	1307.9	1305.9	1332.7	1429.6	1532.8	1553.4
30°	7692.8	6560.2	3816.5	1687.5	1233.7	1151.1	1184.1	1241.9	1384.2	1530.7	1569.9
32.5°	7628.8	6356.0	3055.3	1305.9	1056.2	1010.9	1066.6	1136.7	1277.0	1413.1	1464.7
35°	7678.4	6205.4	2337.3	1089.2	932.5	897.4	955.2	1023.2	1105.7	1163.5	1202.7
37.5°	7864.0	6145.6	1763.8	975.8	847.9	814.9	860.3	899.5	932.5	949.0	967.5
40°	8264.2	6209.5	1413.1	918.0	800.4	759.2	777.7	792.2	812.8	829.3	837.6
42.5°	8854.2	6401.4	1266.7	895.3	775.7	715.8	711.7	717.9	744.7	775.7	781.9
45°	9679.4	6739.7	1256.3	909.8	763.3	680.8	662.2	670.5	711.7	759.2	767.4
47.5°	10733.6	7255.4	1338.9	953.1	773.6	662.2	631.3	641.6	693.2	757.1	767.4
50°	12010.6	7975.4	1477.1	1017.0	819.0	666.3	621.0	627.1	680.8	750.9	761.2
52.5°	13518.6	8996.6	1627.7	1078.9	866.4	693.2	629.2	614.8	664.3	726.2	738.5
55°	15195.8	10306.6	1782.4	1134.6	891.2	726.2	645.7	598.3	633.3	684.9	695.2
57.5°	17254.6	12138.5	2050.6	1188.3	907.7	748.9	662.2	581.8	594.1	631.3	639.5
60°	20041.7	14729.6	2523.0	1277.0	944.8	757.1	660.1	567.3	554.9	575.6	579.7
62.5°	23381.6	17543.4	2917.0	1388.4	1006.7	763.3	647.8	557.0	521.9	521.9	526.1
65°	25364.1	18296.4	2698.4	1481.2	1058.3	757.1	633.3	546.7	497.2	474.5	476.5
67.5°	23682.8	16091.1	2312.6	1499.8	1056.2	728.2	610.6	528.1	472.4	437.3	435.3
69°	21576.5	13883.8	2139.3	1450.3	1006.7	691.1	581.8	507.5	453.9	416.7	414.7
70°	19878.7	12536.6	2025.8	1396.6	953.1	664.3	559.1	488.9	439.4	404.3	400.2
72.5°	14453.1	8214.7	1730.8	1200.6	786.0	557.0	482.7	429.1	392.0	371.3	367.2
75°	7222.4	3917.6	1404.9	973.7	602.4	445.6	396.1	359.0	340.4	336.3	334.2
77.5°	2372.4	1794.8	1004.7	726.2	447.7	348.6	319.8	292.9	288.8	301.2	297.1
80°	1303.8	1043.9	637.5	480.7	305.3	255.8	251.7	237.2	243.4	264.1	259.9
82.5°	664.3	542.6	394.0	288.8	206.3	183.6	200.1	191.9	200.1	218.7	216.6
85°	328.0	297.1	249.6	175.4	136.2	117.6	142.3	148.5	152.7	167.1	167.1
87.5°	189.8	175.4	132.0	82.5	68.1	61.9	82.5	80.5	94.9	103.1	101.1
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)