

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: P192685

Luminaire Tested: **GLEON-AF-07-LED-E1-AFL-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-AFL-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36568 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 448
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



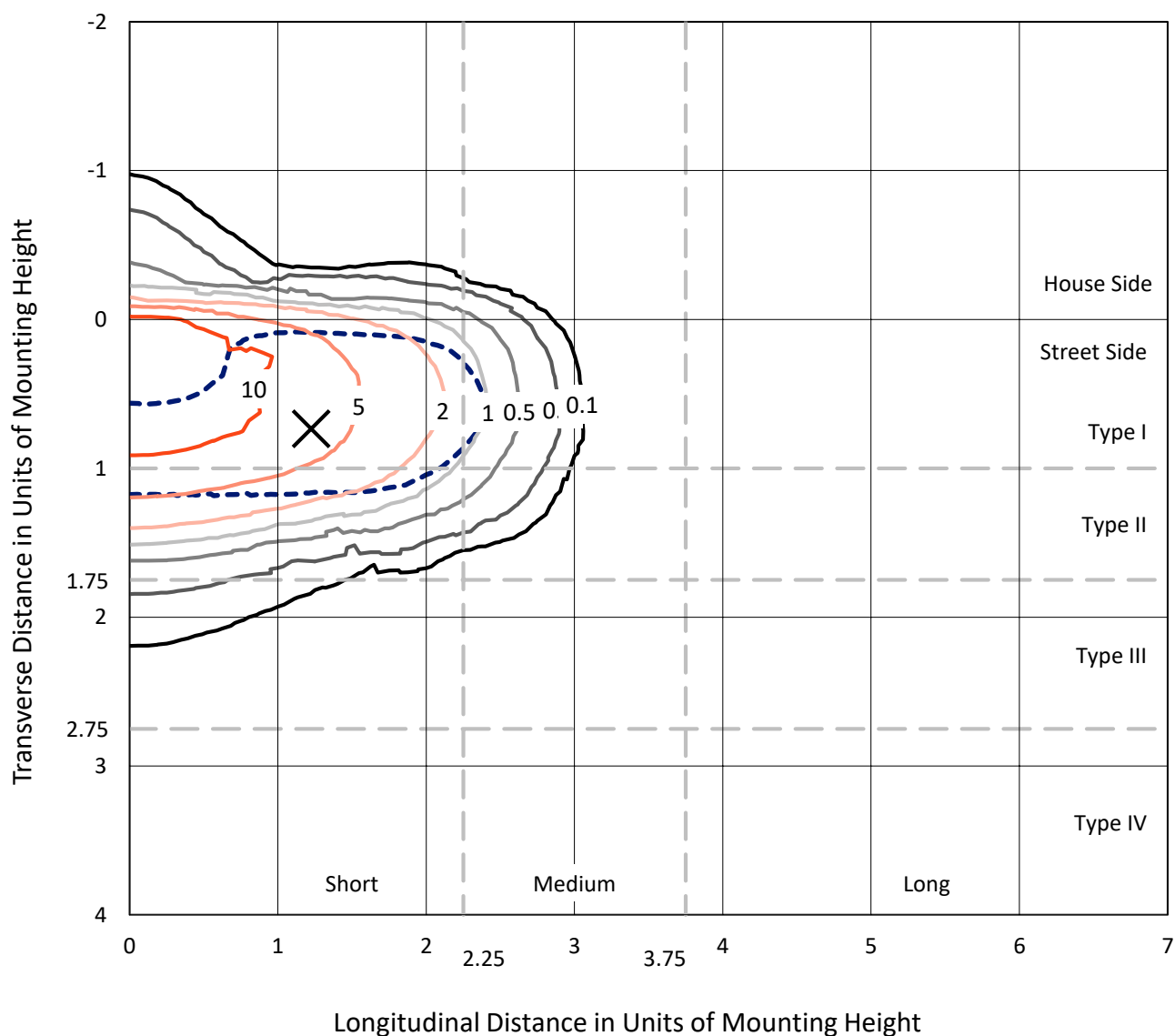
REPORT NUMBER: P192685

CATALOG NUMBER: GLEON-AF-07-LED-E1-AFL-7030-1200-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

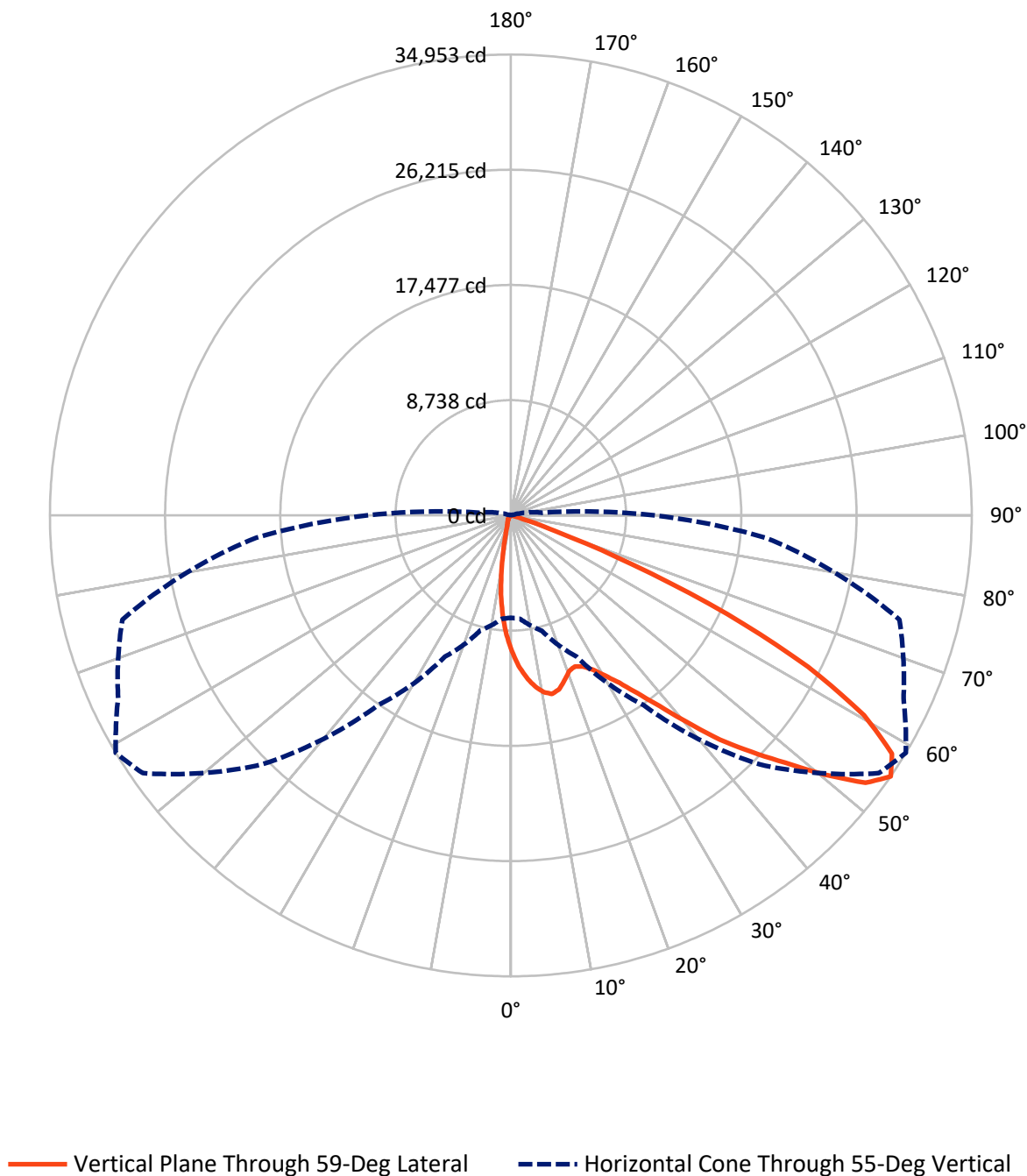


Based on 30 foot mounting height. Maximum calculated value = 14.2 fc
Type II - Short - Full Cutoff

REPORT NUMBER: P192685

CATALOG NUMBER: GLEON-AF-07-LED-E1-AFL-7030-1200-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P192685

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2042.5	0.0	2042.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	34525.5	0.0	34525.5
	% Fixture	94.4	0.0	94.4
Total	Lumens	36568.0	0.0	36568.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	862.2	2.4
10°-20°	2064.4	5.6
20°-30°	3512.8	9.6
30°-40°	6041.2	16.5
40°-50°	9327.0	25.5
50°-60°	9376.6	25.6
60°-70°	4808.4	13.1
70°-80°	521.1	1.4
80°-90°	54.5	0.1
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°	36568.0	100.0
0°-180°	36568.0	100.0

Coefficient of Utilization



REPORT NUMBER: P192685

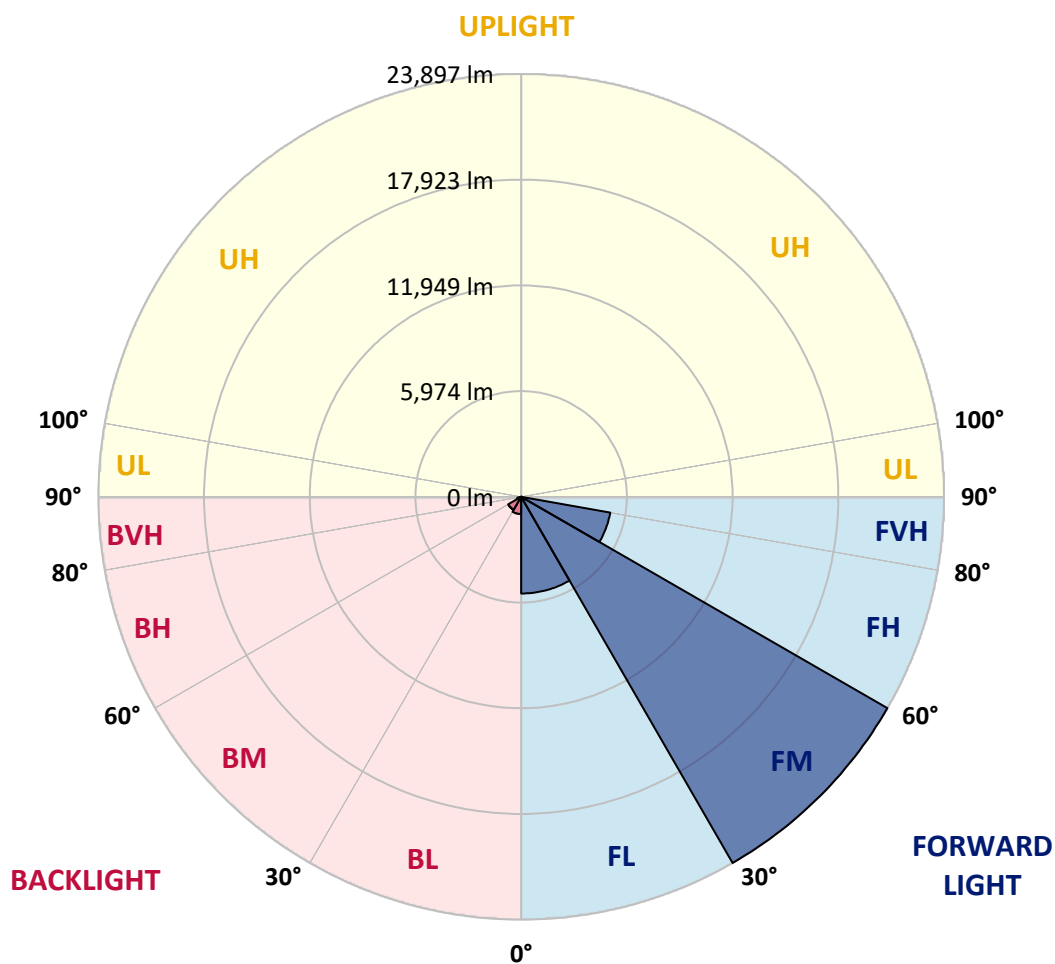
CATALOG NUMBER: GLEON-AF-07-LED-E1-AFL-7030-1200-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5464.5	14.9			
FM	(30°-60°)	23897.0	65.3			
FH	(60°-80°)	5110.6	14.0			G3/7500
FVH	(80°-90°)	53.3	0.1			G1/100
BL	(0°-30°)	974.9	2.7	B2/1000		
BM	(30°-60°)	847.7	2.3	B1/1000		
BH	(60°-80°)	218.8	0.6	B1/500		G1/500
BVH	(80°-90°)	1.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



REPORT NUMBER: P192685

CATALOG NUMBER: GLEON-AF-07-LED-E1-AFL-7030-1200-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	10293.8	10293.8	10293.8	10293.8	10293.8	10293.8	10293.8	10293.8	10293.8	10293.8	10293.8
2.5°	12179.9	12050.4	12011.5	11985.6	11866.9	11718.0	11515.2	11420.3	11226.1	10913.2	10529.0
5°	13295.5	13271.8	13185.5	13138.0	13010.7	12799.1	12475.6	12320.2	12011.5	11485.0	10796.6
7.5°	12807.8	12956.7	13075.5	13274.0	13524.3	13515.7	13243.8	13081.9	12736.7	12041.8	11094.4
10°	10923.8	11044.8	11239.0	11689.9	12609.3	13420.8	13740.1	13623.5	13347.3	12553.3	11381.4
12.5°	10554.9	10541.9	10576.4	10708.1	11189.4	12346.1	13656.0	13891.2	13835.1	13021.5	11653.3
15°	10751.2	10736.2	10731.9	10777.2	10893.7	11381.4	13023.7	13699.2	14132.9	13455.3	11884.2
17.5°	11301.6	11236.8	11202.3	11165.6	11131.2	11251.9	12264.1	13161.8	14178.1	13835.1	12076.3
20°	12244.5	12136.7	12009.3	11802.1	11608.0	11547.6	11944.7	12609.3	14016.4	14124.3	12201.4
22.5°	13429.4	13291.3	13071.1	12693.5	12298.6	12069.8	12102.2	12434.5	13774.7	14439.2	12259.8
25°	14760.8	14583.9	14290.4	13766.0	13185.5	12779.8	12568.3	12684.9	13664.6	14808.4	12326.6
27.5°	16187.3	15990.9	15606.8	14892.5	14234.3	13686.2	13254.6	13239.5	13852.3	15291.7	12434.5
30°	17600.8	17570.6	17069.9	16314.6	15442.8	14776.0	14154.4	14074.6	14376.8	15960.7	12648.2
32.5°	19486.9	19260.3	18647.5	17870.6	16864.9	16064.3	15328.4	15142.8	15181.7	16739.7	12978.4
35°	21865.1	21616.8	20753.7	19681.1	18556.8	17611.6	16798.1	16545.5	16450.6	18015.1	13535.1
37.5°	23401.5	23397.3	22855.6	21763.7	20557.3	19515.1	18630.3	18334.6	18142.5	19556.0	14398.3
40°	23442.5	23544.0	23615.2	23604.4	22745.5	21785.2	20999.7	20635.0	20188.3	21614.8	15514.0
42.5°	22184.4	22445.5	23073.6	24139.6	24648.9	24266.9	23604.4	23246.2	22581.4	23818.1	16873.6
45°	20483.9	20665.2	21763.7	23727.4	25680.4	26727.1	26222.1	25581.2	24705.0	26116.4	18092.8
47.5°	19722.2	19754.5	20464.5	22620.4	25758.1	28742.7	29049.1	28006.8	26634.2	27967.9	19046.7
50°	17445.4	17503.7	18483.4	20701.9	24847.4	29694.4	31889.1	30900.7	28738.4	29394.3	19394.2
52.5°	13148.8	13230.9	14473.8	17549.0	22344.2	29288.7	33921.9	33682.3	31043.1	30091.4	19413.5
55°	7758.1	7866.0	9052.9	11813.0	17574.9	26707.7	34072.9	34953.4	32862.4	30503.6	19383.3
57.5°	3623.4	3698.9	4378.7	6085.6	10930.4	21107.6	31798.4	34081.6	33865.8	30721.5	19597.0
60°	1924.9	1946.6	2110.6	2634.9	4939.7	13384.0	27359.4	30775.5	32950.9	31023.7	19858.1
62.5°	1471.7	1478.3	1469.6	1532.2	2076.0	5941.1	20680.3	25300.6	29267.1	30797.1	19568.9
65°	1275.4	1286.2	1225.8	1210.7	1331.6	2119.2	12285.6	18034.6	22998.0	27739.2	17598.6
67.5°	1143.7	1148.1	1074.7	1012.1	1033.7	1145.9	4847.0	9873.0	15222.6	20332.8	12756.0
70°	1053.1	1048.8	968.9	869.7	841.7	783.4	1540.8	3619.0	7274.7	10311.1	5932.4
72.5°	932.3	934.3	895.6	766.1	699.1	548.2	714.3	1055.2	2171.0	2809.7	1389.8
75°	826.5	815.7	768.2	686.2	576.3	360.3	353.9	470.5	669.0	664.7	299.9
77.5°	597.7	586.9	602.1	563.2	442.4	233.0	177.0	226.6	271.9	263.4	84.1
80°	438.1	431.6	388.4	468.2	390.6	159.7	110.1	120.8	140.3	118.6	25.9
82.5°	299.9	297.8	274.0	259.0	222.3	97.1	69.1	75.5	90.6	66.8	13.0
85°	47.5	54.0	198.6	157.6	131.6	43.1	47.5	51.8	60.4	36.7	4.4
87.5°	0.0	0.0	92.8	82.1	25.9	17.3	28.1	30.3	30.3	19.4	0.0
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: P192685

CATALOG NUMBER: GLEON-AF-07-LED-E1-AFL-7030-1200-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10293.8	10293.8	10293.8	10293.8	10293.8	10293.8	10293.8	10293.8	10293.8	10293.8	10293.8
2.5°	10332.6	10116.8	9717.5	9305.4	8923.4	8468.0	8155.1	7919.9	7648.0	7574.6	7734.4
5°	10403.7	9995.9	9137.1	8202.6	7324.3	6351.0	5606.5	5017.4	4484.3	4303.0	4467.1
7.5°	10515.9	9909.6	8509.1	6970.4	5442.5	3923.3	2883.2	2199.1	1763.1	1633.7	1702.7
10°	10628.2	9784.5	7781.8	5511.6	3422.6	1909.9	1243.1	992.7	899.9	880.5	891.2
12.5°	10721.1	9616.1	6895.0	3918.9	1830.0	1022.8	813.6	772.6	759.6	759.6	763.9
15°	10777.2	9361.5	5843.9	2492.5	1053.1	772.6	709.9	697.1	697.1	699.1	703.5
17.5°	10770.7	9037.8	4693.7	1508.5	787.6	684.1	647.4	636.7	634.5	638.7	641.0
20°	10690.8	8614.8	3539.1	994.8	686.2	623.7	586.9	567.6	565.4	569.7	574.0
22.5°	10539.8	8092.7	2531.3	766.1	619.4	565.4	520.1	502.8	502.8	507.2	511.5
25°	10356.3	7453.7	1730.7	649.5	559.0	502.8	459.7	444.5	448.8	459.7	461.8
27.5°	10127.6	6735.2	1176.0	556.7	485.5	440.2	407.9	397.0	407.9	423.0	427.3
30°	9931.2	5986.4	839.4	481.3	412.2	379.7	360.3	360.3	375.6	403.6	410.0
32.5°	9780.2	5261.3	647.4	425.1	358.3	330.2	319.4	330.2	353.9	382.0	388.4
35°	9760.6	4663.5	548.2	379.7	319.4	291.2	287.1	306.5	330.2	351.7	356.0
37.5°	9909.6	4111.0	494.2	343.1	284.8	259.0	254.7	278.4	302.1	328.0	334.5
40°	10192.4	3677.2	455.4	308.5	256.8	228.8	220.1	237.4	269.8	304.3	312.9
42.5°	10559.2	3319.1	412.2	274.0	228.8	189.9	179.0	198.6	233.0	269.8	280.6
45°	10908.8	3010.4	364.7	235.2	192.1	146.7	142.5	168.4	185.6	222.3	230.9
47.5°	11100.8	2738.5	323.7	192.1	148.9	118.6	118.6	125.2	142.5	185.6	194.3
50°	11036.1	2520.6	280.6	142.5	103.6	90.6	90.6	88.5	114.4	148.9	155.3
52.5°	10906.6	2395.4	241.7	110.1	71.2	64.8	58.2	64.8	79.9	94.9	97.1
55°	10887.2	2373.8	202.9	88.5	49.6	43.1	32.3	32.3	32.3	30.3	25.9
57.5°	11038.3	2408.4	170.5	71.2	36.7	28.1	17.3	0.0	0.0	0.0	0.0
60°	11193.6	2445.0	146.7	49.6	25.9	15.1	2.1	0.0	0.0	0.0	0.0
62.5°	10934.6	2363.1	123.0	30.3	19.4	6.4	0.0	0.0	0.0	0.0	0.0
65°	9605.3	2011.3	97.1	21.7	13.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6832.3	1346.6	64.8	13.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	3118.4	563.2	41.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	666.8	174.9	28.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	135.9	127.3	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	43.1	200.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	25.9	144.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.4	21.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)