

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: P269246

Luminaire Tested: **GLEON-AF-04-LED-E1-SL4-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-SL4-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21745.7 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 258
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

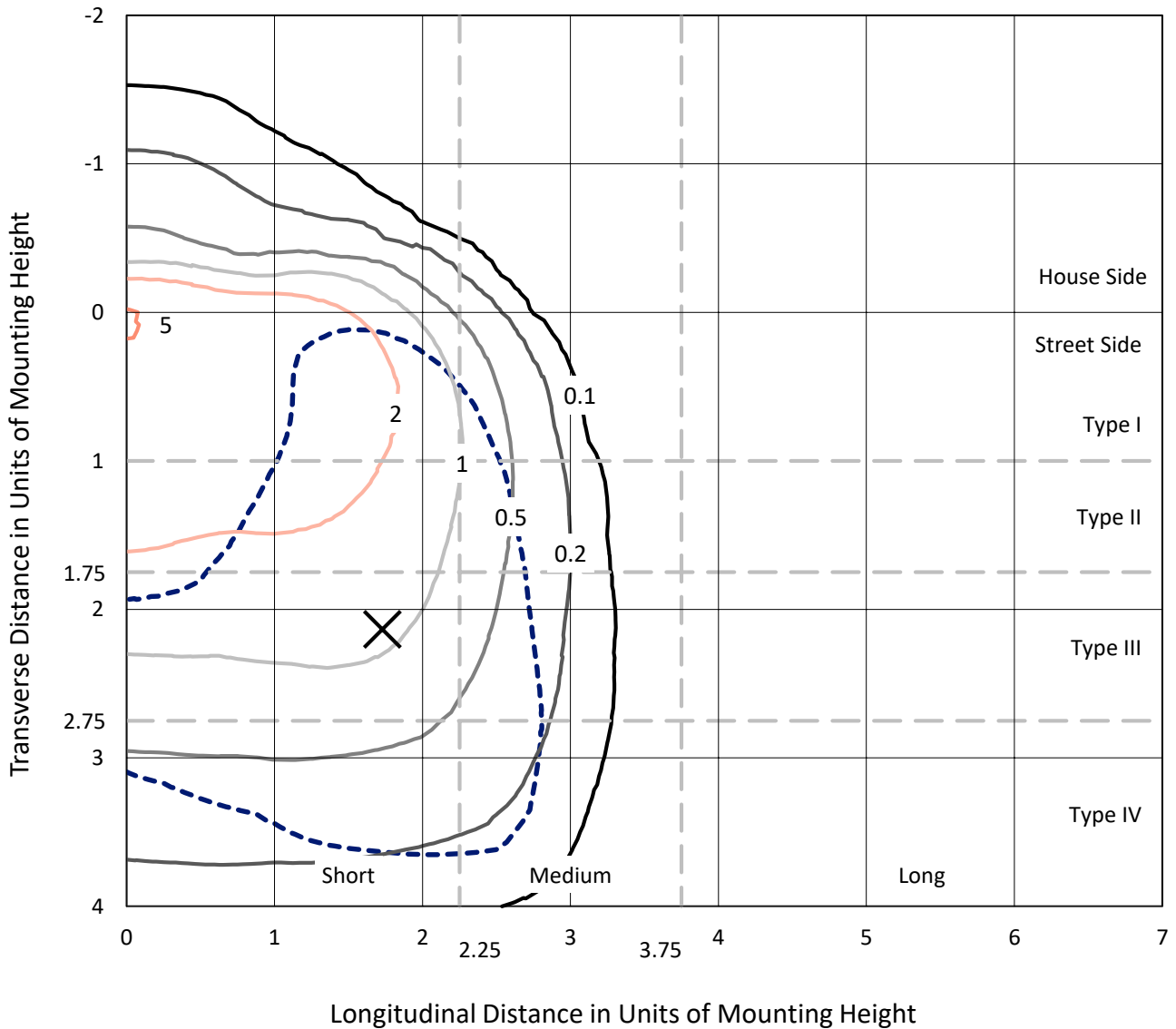


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

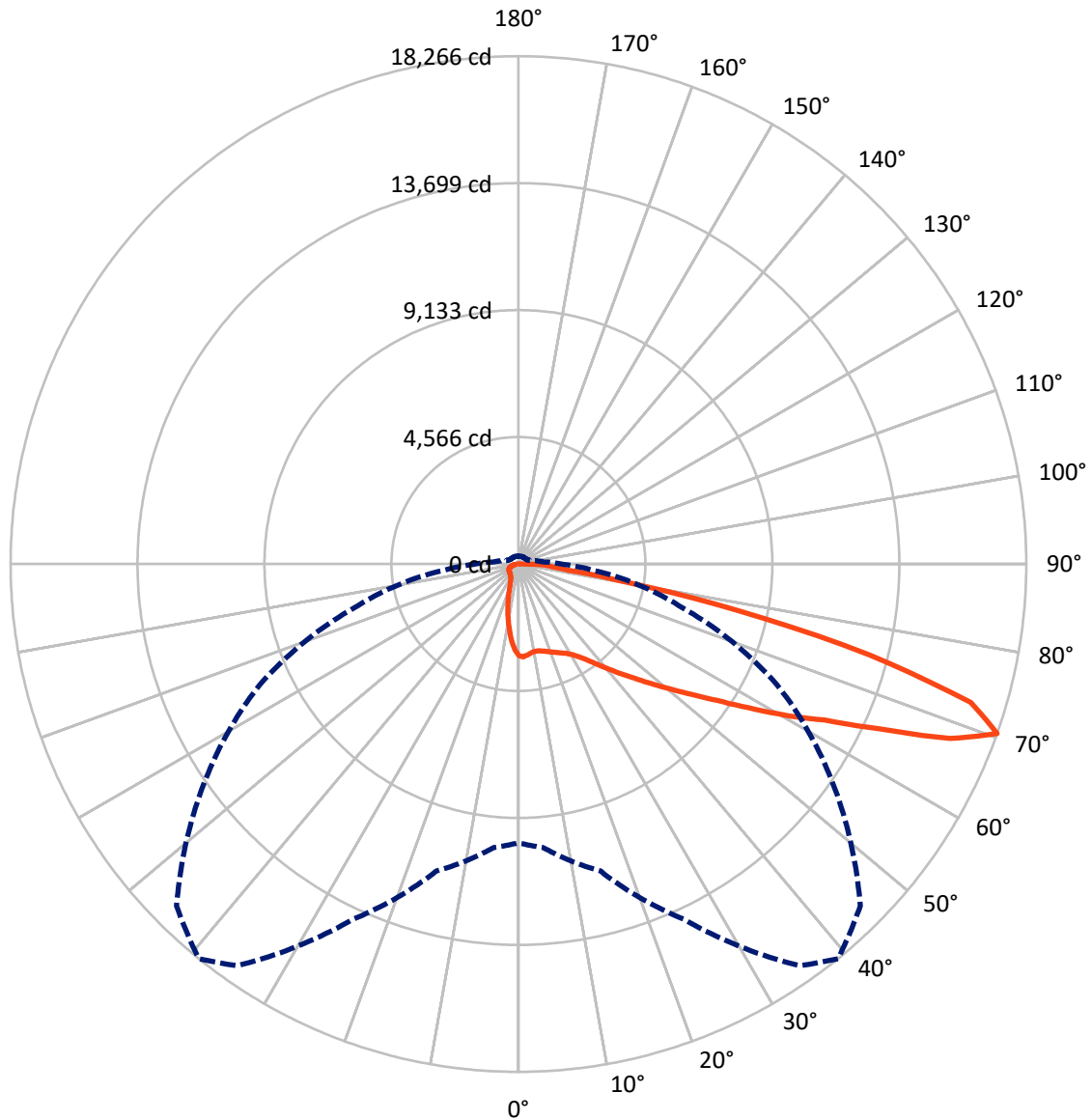


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2473.2	0.0	2473.2
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	19272.5	0.0	19272.5
	% Fixture	88.6	0.0	88.6
Total	Lumens	21745.7	0.0	21745.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.3	1.3
10°-20°	708.2	3.3
20°-30°	1102.7	5.1
30°-40°	1717.7	7.9
40°-50°	2883.8	13.3
50°-60°	4581.2	21.1
60°-70°	6110.8	28.1
70°-80°	3690.1	17.0
80°-90°	667.9	3.1
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°	21745.7	100.0
0°-180°	21745.7	100.0

Coefficient of Utilization



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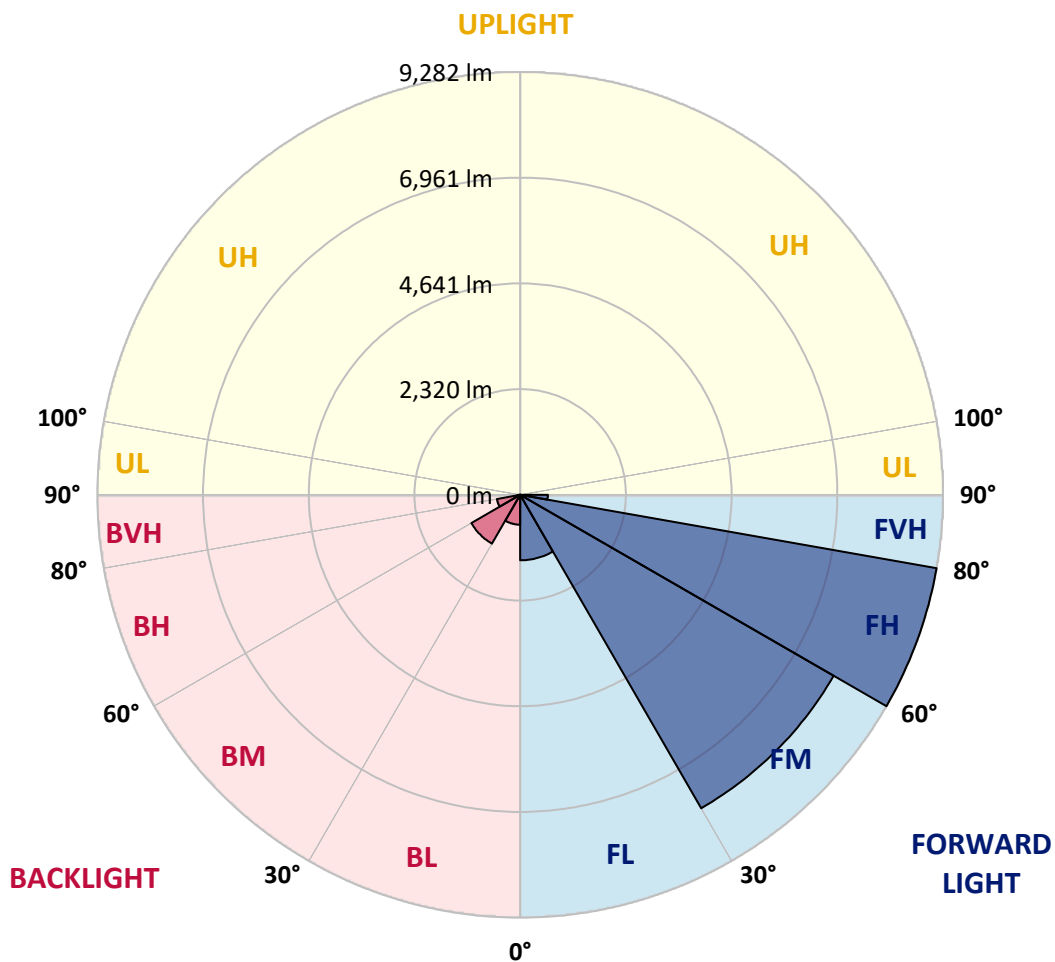
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1438.1	6.6			
FM	(30°-60°)	7945.0	36.5			
FH	(60°-80°)	9281.7	42.7			G4/12000
FVH	(80°-90°)	607.7	2.8			G4/750
BL	(0°-30°)	656.1	3.0	B2/1000		
BM	(30°-60°)	1237.7	5.7	B2/2500		
BH	(60°-80°)	519.2	2.4	B2/1000		G2/1000
BVH	(80°-90°)	60.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4
2.5°	3365.5	3364.3	3355.4	3348.9	3343.3	3341.2	3345.6	3328.9	3314.6	3296.9	3278.2
5°	3340.1	3338.9	3324.5	3311.3	3297.9	3293.5	3292.5	3262.6	3244.9	3218.4	3183.1
7.5°	3312.4	3306.9	3288.1	3266.0	3242.7	3231.7	3220.7	3181.9	3162.0	3135.5	3094.7
10°	3283.7	3276.9	3259.3	3237.2	3215.2	3198.5	3179.7	3142.1	3121.2	3101.2	3053.7
12.5°	3253.8	3248.4	3243.8	3233.9	3218.4	3204.1	3189.7	3157.6	3135.5	3112.3	3057.0
15°	3249.3	3247.2	3257.2	3263.7	3254.9	3246.0	3230.6	3202.9	3179.7	3156.6	3084.6
17.5°	3284.7	3283.7	3309.0	3326.8	3322.3	3306.9	3285.9	3254.9	3236.1	3216.2	3126.6
20°	3362.1	3367.7	3398.6	3421.9	3399.7	3377.6	3343.3	3300.3	3290.3	3281.4	3169.8
22.5°	3508.2	3513.6	3535.6	3544.5	3487.1	3455.1	3407.5	3352.1	3345.6	3352.1	3221.7
25°	3735.8	3730.3	3727.0	3693.8	3588.8	3539.1	3478.2	3420.7	3424.1	3454.0	3294.8
27.5°	4037.6	4007.8	3961.3	3861.9	3694.9	3639.7	3565.6	3512.6	3533.6	3591.1	3404.1
30°	4350.5	4317.3	4210.1	4047.7	3834.2	3773.4	3690.4	3630.8	3686.0	3776.7	3550.1
32.5°	4640.3	4635.9	4478.8	4269.9	4026.7	3973.6	3890.6	3823.1	3912.7	4050.9	3769.0
35°	4956.4	4966.4	4778.4	4527.5	4286.4	4231.1	4171.5	4120.5	4240.0	4430.1	4086.3
37.5°	5294.7	5314.6	5092.4	4809.3	4582.8	4559.4	4524.1	4502.0	4686.6	4949.8	4529.7
40°	5746.9	5727.1	5418.5	5127.7	4946.4	4945.3	4934.3	4960.8	5268.2	5628.6	5099.0
42.5°	6231.3	6172.7	5764.7	5469.4	5345.6	5383.3	5405.3	5513.6	5968.1	6453.5	5793.3
45°	6753.0	6621.4	6123.9	5831.0	5788.9	5868.5	5943.7	6179.3	6791.7	7392.1	6554.0
47.5°	7169.8	7042.7	6495.5	6210.3	6301.9	6422.4	6567.2	6939.9	7713.7	8361.8	7304.7
50°	7498.2	7415.2	6870.2	6652.4	6867.0	7052.7	7289.2	7801.2	8673.5	9305.9	8000.1
52.5°	7816.6	7754.7	7248.3	7105.8	7530.3	7786.8	8108.6	8725.4	9657.5	10234.6	8585.0
55°	8104.1	8059.9	7655.1	7670.6	8310.8	8644.7	9049.3	9778.1	10729.9	11062.6	9080.3
57.5°	8428.0	8371.7	8119.6	8379.4	9313.5	9747.0	10273.2	10960.9	11735.9	11799.0	9457.4
60°	8754.2	8705.6	8634.8	9197.6	10587.2	11042.8	11541.5	12107.4	12756.6	12370.6	9435.3
62.5°	9037.2	9042.8	9167.7	10056.5	11834.5	12361.8	12969.9	13529.4	13679.7	12470.1	8737.6
65°	9517.1	9604.4	9976.9	11272.7	13590.1	14295.4	15041.8	14952.2	13935.0	11540.3	7241.6
67.5°	10087.5	10241.1	10996.3	12893.6	15809.0	16745.5	17034.0	15273.9	12912.3	9381.1	5162.1
70°	10030.0	10241.1	11436.4	14102.0	17637.7	18265.6	17390.1	13823.4	10253.3	6128.3	2741.8
72.5°	8906.8	9208.5	10539.8	13548.1	17061.7	17006.4	15097.0	10305.4	6091.9	2461.0	1071.3
75°	6788.4	7093.6	8239.0	10703.3	13485.0	13020.8	10712.2	5692.7	2311.8	977.4	675.5
77.5°	3905.0	4141.5	5026.0	6563.9	8555.2	8078.6	5962.5	2531.9	1125.4	681.0	527.3
80°	2180.2	2311.8	2849.2	3330.0	4192.5	3843.0	2667.8	1573.3	840.3	494.2	406.8
82.5°	1723.7	1840.8	2304.2	2100.6	1914.8	1766.7	1532.4	1400.7	671.2	311.8	243.3
85°	1505.7	1617.5	1950.3	1654.0	1307.9	1199.5	1245.0	1378.7	521.8	187.9	207.9
87.5°	1395.2	1544.5	1738.0	1274.8	1018.3	902.2	1148.8	1511.4	168.1	117.1	84.0
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°	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4
2.5°	3261.6	3243.8	3215.2	3189.7	3149.8	3128.8	3105.6	3089.0	3075.7	3064.7	3082.4
5°	3161.0	3127.8	3067.0	3001.7	2924.3	2863.4	2812.7	2765.2	2731.9	2709.8	2725.3
7.5°	3065.8	3011.7	2916.5	2798.3	2665.6	2552.9	2460.0	2378.2	2321.8	2285.3	2299.7
10°	3011.7	2944.3	2797.2	2611.5	2415.7	2240.0	2093.9	1967.9	1880.6	1830.8	1838.7
12.5°	2998.5	2911.0	2707.6	2452.3	2184.7	1940.2	1734.6	1559.9	1437.3	1373.1	1375.3
15°	3008.3	2896.7	2623.6	2299.7	1961.3	1652.9	1396.3	1184.1	1041.5	968.6	967.5
17.5°	3025.0	2885.6	2535.1	2134.9	1734.6	1376.5	1090.2	882.2	756.3	697.7	693.2
20°	3042.6	2867.8	2435.7	1956.9	1499.2	1119.9	853.5	690.9	611.3	579.3	577.2
22.5°	3068.0	2852.5	2332.8	1768.9	1268.1	912.0	702.0	592.6	550.7	534.0	531.7
25°	3108.9	2844.8	2223.3	1573.3	1060.3	762.9	611.3	544.0	519.6	508.6	507.5
27.5°	3177.6	2855.8	2120.5	1383.1	891.1	662.3	560.5	519.6	502.0	492.0	491.0
30°	3266.0	2890.0	2012.3	1202.9	759.5	593.7	529.6	503.1	488.7	478.7	478.7
32.5°	3413.0	2947.6	1898.3	1047.1	665.6	546.2	506.4	488.7	476.6	468.7	467.7
35°	3629.7	3055.9	1792.2	917.7	598.1	511.9	486.4	473.1	464.3	459.9	459.9
37.5°	3944.7	3227.3	1698.2	824.7	557.2	488.7	467.7	457.7	452.1	452.1	452.1
40°	4368.3	3463.9	1621.9	762.9	534.0	472.1	453.4	445.6	442.2	443.4	443.4
42.5°	4891.2	3771.3	1571.0	719.7	523.0	462.2	443.4	436.8	433.4	432.3	433.4
45°	5487.0	4120.5	1565.6	687.7	511.9	455.5	436.8	430.1	423.5	419.0	419.0
47.5°	6066.4	4475.4	1610.9	676.7	499.7	447.7	431.1	424.5	414.6	404.6	404.6
50°	6578.4	4777.4	1671.7	681.0	495.3	436.8	422.4	419.0	403.6	392.5	391.4
52.5°	6985.2	5009.5	1721.4	694.3	499.7	429.0	411.2	412.4	395.9	383.7	382.6
55°	7311.3	5162.1	1708.1	707.5	509.7	424.5	401.4	403.6	390.3	378.1	378.1
57.5°	7454.0	5105.6	1561.2	696.5	517.5	425.6	393.5	402.4	391.4	380.3	380.3
60°	7147.8	4604.8	1285.8	647.9	507.5	422.4	390.3	406.8	405.8	394.6	393.5
62.5°	6221.2	3708.3	997.3	576.1	473.1	405.8	381.4	405.8	417.9	414.6	413.5
65°	4795.1	2641.2	761.8	498.6	426.8	378.1	358.2	380.3	397.0	401.4	400.3
67.5°	3112.3	1618.6	587.1	425.6	374.9	346.0	328.4	338.3	341.6	341.6	339.4
70°	1530.2	871.3	467.7	358.2	321.8	311.8	301.8	296.4	290.8	286.4	286.4
72.5°	755.1	569.3	384.7	303.0	277.4	273.1	270.8	264.2	259.8	254.3	252.1
75°	558.3	463.3	327.3	255.4	238.8	234.4	238.8	233.3	232.2	227.8	225.6
77.5°	458.9	394.6	281.9	218.8	204.5	196.8	203.5	204.5	205.6	199.1	196.8
80°	372.5	333.9	235.4	181.3	168.1	162.6	166.9	175.8	178.0	168.1	163.6
82.5°	268.7	273.1	190.3	141.6	130.4	126.0	134.8	146.0	148.1	133.8	130.4
85°	225.6	227.8	146.0	100.6	89.6	83.0	97.2	108.3	116.2	101.7	98.5
87.5°	94.0	133.8	84.0	56.4	49.8	43.1	51.9	57.5	69.7	64.0	63.1
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)