

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: P192893

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192893
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-05-LED-E1-SL3-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 18959.7 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 162
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

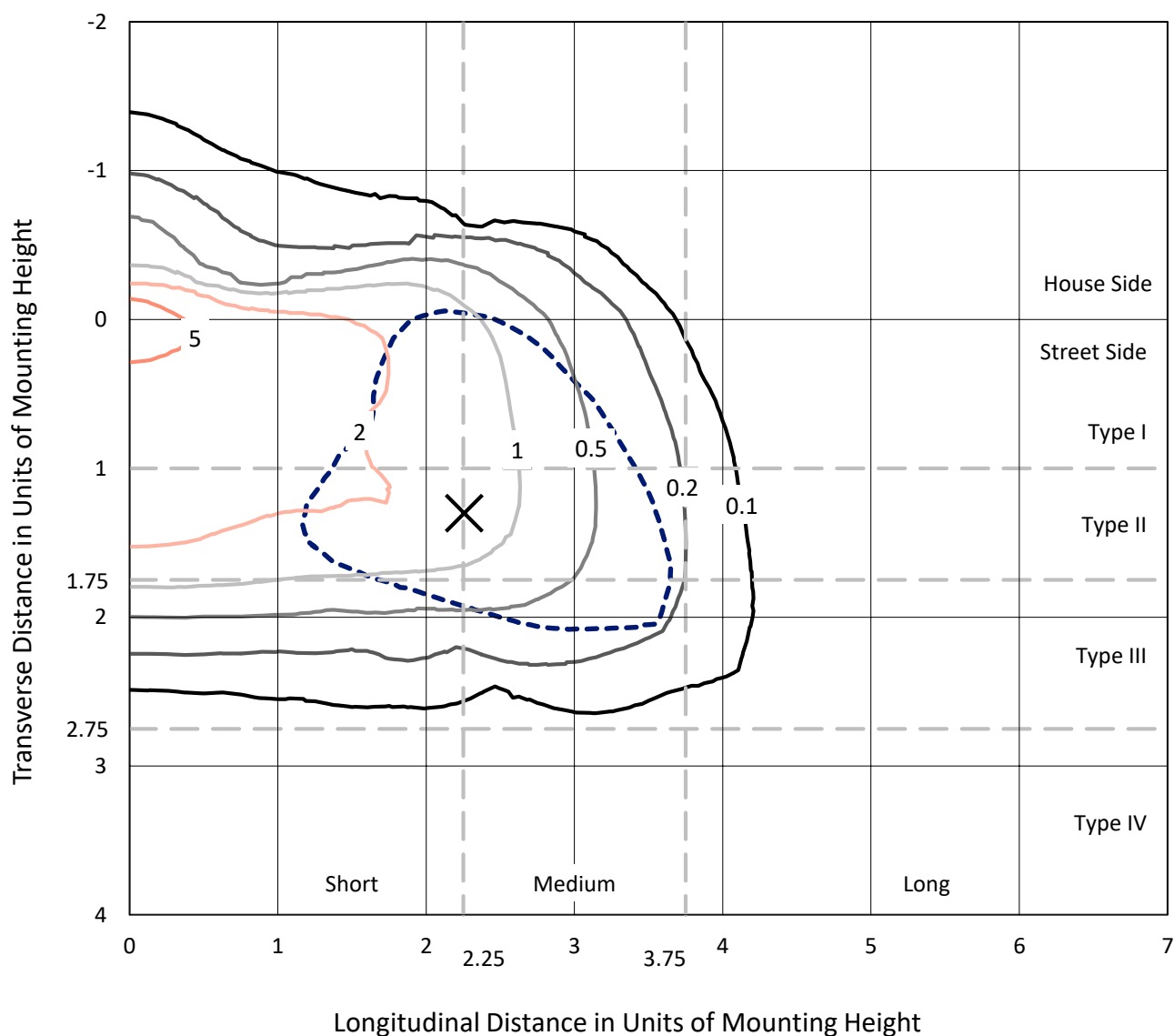


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

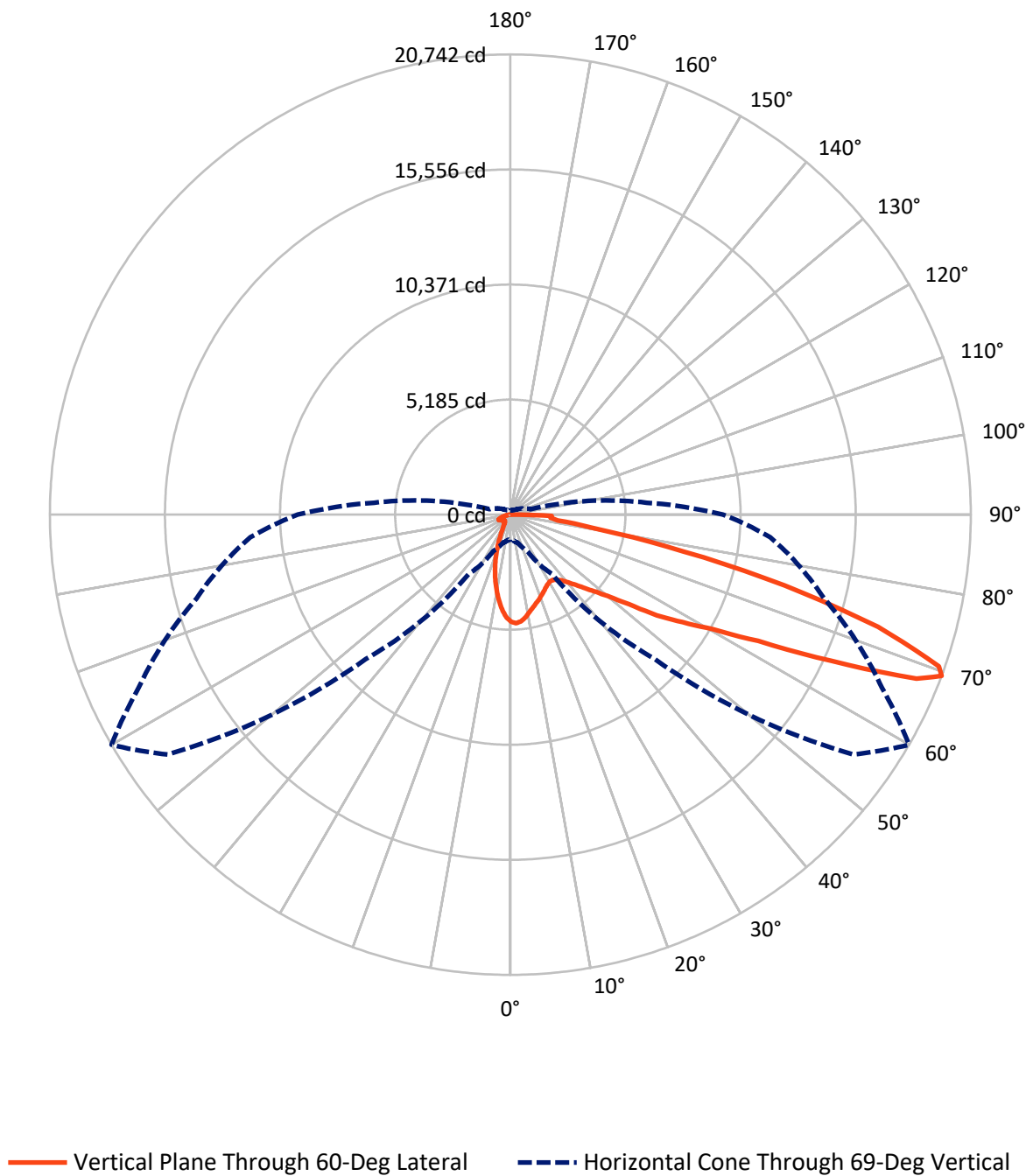


Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2697.4	0.0	2697.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	16262.4	0.0	16262.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	18959.7	0.0	18959.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.5	2.2
10°-20°	870.3	4.6
20°-30°	1109.0	5.8
30°-40°	1524.5	8.0
40°-50°	2473.7	13.0
50°-60°	3967.2	20.9
60°-70°	5280.0	27.8
70°-80°	2850.8	15.0
80°-90°	475.7	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°	18959.7	100.0
0°-180°	18959.7	100.0

Coefficient of Utilization



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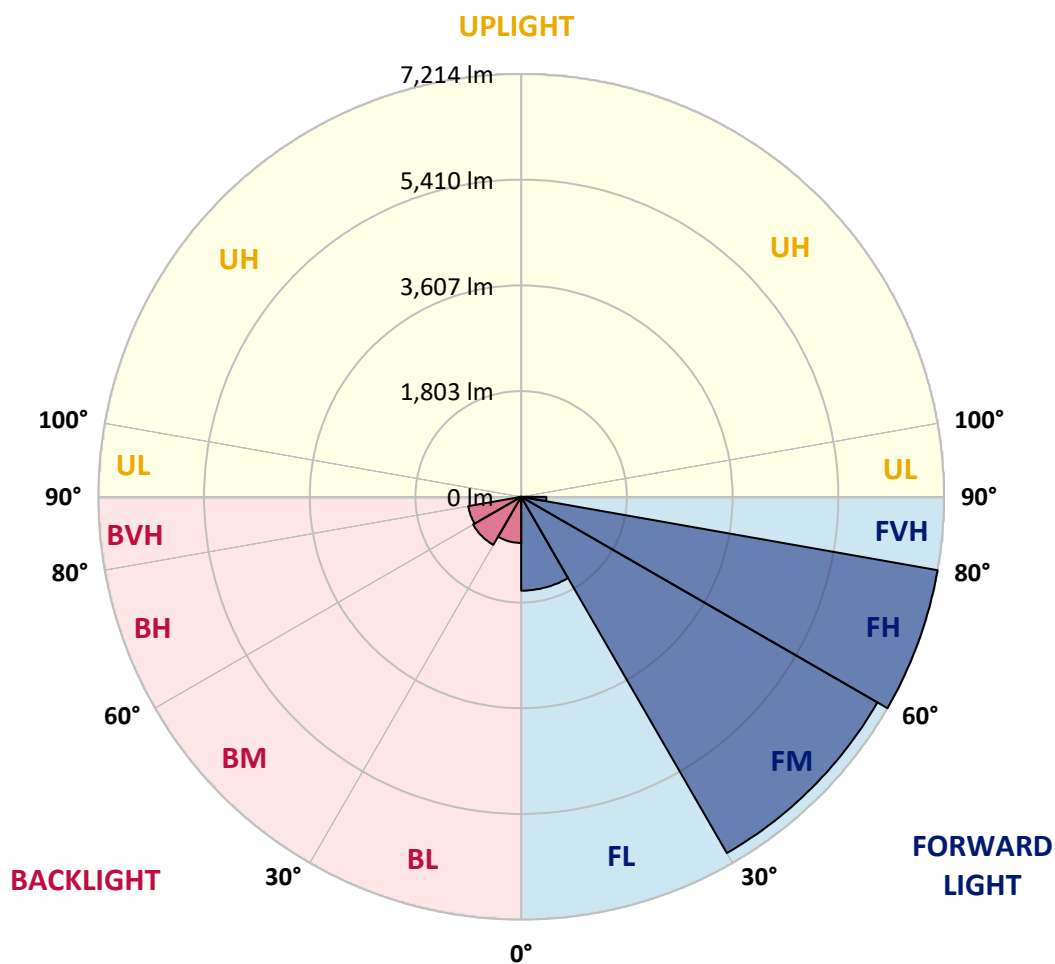
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1600.9	8.4			
FM	(30°-60°)	7017.8	37.0			
FH	(60°-80°)	7213.8	38.0			G3/7500
FVH	(80°-90°)	429.9	2.3			G3/500
BL	(0°-30°)	786.9	4.2	B2/1000		
BM	(30°-60°)	947.6	5.0	B1/1000		
BH	(60°-80°)	917.0	4.8	B2/1000		G2/1000
BVH	(80°-90°)	45.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	4831.2	4831.2	4831.2	4831.2	4831.2	4831.2	4831.2	4831.2	4831.2	4831.2	4831.2
2.5°	4930.1	4941.1	4936.6	4933.8	4942.1	4929.2	4902.7	4894.4	4881.6	4851.3	4800.1
5°	4745.1	4778.1	4776.3	4801.0	4842.3	4853.2	4841.3	4843.1	4819.3	4781.7	4696.6
7.5°	4425.5	4439.2	4446.6	4500.6	4575.7	4636.2	4687.4	4703.9	4692.9	4660.9	4550.9
10°	4095.8	4106.7	4124.2	4187.4	4282.6	4366.0	4463.0	4519.0	4542.8	4537.2	4414.5
12.5°	3812.8	3823.7	3846.7	3918.1	4031.6	4134.3	4275.4	4344.9	4401.7	4435.6	4303.7
15°	3559.1	3582.9	3604.9	3687.3	3814.6	3949.2	4108.5	4196.5	4284.5	4360.4	4205.7
17.5°	3361.3	3385.1	3397.9	3473.1	3608.5	3773.4	3960.2	4063.7	4173.6	4298.2	4108.5
20°	3246.7	3257.8	3252.3	3294.3	3416.2	3591.2	3812.8	3932.8	4065.5	4239.6	4011.6
22.5°	3214.7	3215.6	3195.5	3190.9	3269.7	3417.1	3655.3	3800.9	3963.9	4201.1	3928.2
25°	3292.5	3289.8	3234.8	3190.1	3198.2	3284.4	3503.2	3672.6	3878.7	4192.9	3864.1
27.5°	3465.7	3473.9	3392.4	3308.2	3224.8	3222.0	3387.8	3566.4	3809.1	4230.4	3836.6
30°	3708.4	3722.1	3635.0	3528.0	3371.3	3242.2	3342.9	3503.2	3766.0	4308.3	3832.0
32.5°	3974.0	3988.6	3922.7	3810.1	3604.9	3366.8	3374.0	3508.8	3764.2	4417.3	3863.2
35°	4257.0	4273.4	4239.6	4144.3	3916.3	3596.6	3493.1	3597.6	3823.7	4584.0	3946.6
37.5°	4572.9	4598.6	4607.8	4517.1	4273.4	3899.8	3688.3	3766.0	3958.4	4815.7	4099.4
40°	5028.1	5063.8	5061.1	4931.1	4682.9	4309.1	3989.5	4009.7	4168.1	5125.3	4344.0
42.5°	5900.1	5907.4	5679.3	5396.4	5133.4	4739.6	4344.9	4328.5	4457.6	5517.3	4703.9
45°	7009.2	6978.9	6471.5	5924.8	5604.2	5234.2	4807.4	4726.8	4824.8	5995.3	5154.6
47.5°	7929.6	7860.0	7218.9	6464.3	6102.4	5771.8	5350.5	5209.5	5263.6	6537.5	5736.9
50°	8249.3	8197.0	7665.8	6913.1	6574.1	6427.6	6019.1	5819.4	5834.1	7184.2	6419.3
52.5°	8180.6	8173.2	7818.8	7208.8	7015.6	7116.4	6966.2	6696.0	6553.1	7902.1	7155.7
55°	8018.4	8034.1	7905.8	7553.2	7520.2	7781.2	8203.5	8003.8	7559.6	8626.6	7916.8
57.5°	7455.2	7495.5	7777.6	7986.5	8332.6	8721.0	9199.9	9143.2	8643.1	9409.7	8821.7
60°	6006.3	6099.7	6856.2	7902.1	9168.8	10383.2	10597.6	10465.7	9760.4	10381.4	10016.9
62.5°	4208.4	4305.5	5204.9	6841.6	9031.5	12260.8	13096.1	12527.3	11365.0	11812.9	11563.8
65°	2253.0	2299.8	2986.7	4747.0	7624.6	12648.2	16747.7	15882.2	13905.8	13577.8	12887.2
67.5°	1242.9	1268.5	1531.4	2396.8	4883.5	11137.9	19073.9	19728.0	17081.0	14753.0	12646.4
69°	1123.7	1147.5	1319.8	1815.3	3267.8	9209.1	18846.9	20741.8	18473.2	14636.6	11756.2
70°	1099.0	1121.0	1275.8	1673.3	2645.0	7590.8	18085.8	20482.7	18804.7	14219.9	10979.5
72.5°	989.2	1013.0	1163.2	1503.0	2260.3	3784.4	14326.1	17318.2	17072.9	12329.5	8328.1
75°	922.2	944.2	1198.9	1471.8	2164.2	2395.0	9444.5	12763.6	12550.2	8624.8	4490.5
77.5°	394.8	392.9	555.9	1245.5	2196.2	2319.0	5074.9	7973.6	7274.8	3686.4	1289.6
80°	263.8	259.2	263.8	366.3	2013.9	2331.8	2658.9	4047.3	3057.2	939.7	635.7
82.5°	227.2	223.4	231.7	223.4	708.0	2661.5	2260.3	2152.3	1453.4	533.9	315.1
85°	153.0	146.5	199.6	200.6	334.4	2364.8	2546.2	1818.0	1175.9	316.9	155.7
87.5°	73.3	71.4	116.4	141.9	196.0	960.7	2856.6	1862.9	1186.0	162.1	74.2
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°	4831.2	4831.2	4831.2	4831.2	4831.2	4831.2	4831.2	4831.2	4831.2	4831.2	4831.2
2.5°	4784.6	4747.0	4710.3	4666.4	4620.6	4569.3	4543.6	4518.0	4511.7	4504.3	4478.6
5°	4652.6	4599.5	4507.9	4407.2	4301.0	4197.4	4118.6	4069.3	4031.6	4012.4	3978.5
7.5°	4482.3	4404.5	4244.1	4070.1	3891.6	3728.5	3587.5	3498.6	3414.4	3375.0	3330.1
10°	4320.2	4203.9	3954.7	3698.3	3441.8	3195.5	2963.7	2799.9	2654.2	2572.7	2515.0
12.5°	4181.0	4021.7	3676.3	3329.2	2977.6	2626.7	2279.5	2006.6	1778.6	1658.7	1597.3
15°	4045.5	3853.0	3411.6	2971.1	2519.5	2042.4	1586.3	1276.7	1088.0	1013.0	987.2
17.5°	3922.7	3676.3	3146.0	2610.2	2047.0	1470.0	1066.1	895.7	823.4	798.6	790.4
20°	3789.8	3497.7	2870.3	2232.9	1554.2	1027.6	832.5	757.3	728.1	720.8	717.2
22.5°	3661.8	3321.9	2606.6	1829.0	1116.4	793.1	715.3	684.2	679.6	686.0	686.0
25°	3552.7	3164.3	2321.8	1406.8	819.7	667.7	640.1	632.8	650.3	674.1	678.6
27.5°	3471.1	3035.2	2018.6	1038.6	653.1	580.7	579.7	591.6	634.7	680.4	689.7
30°	3415.3	2912.6	1694.4	749.2	547.7	511.0	525.7	551.3	614.6	679.6	697.0
32.5°	3386.9	2821.8	1356.5	579.7	468.9	448.7	473.5	504.7	566.9	627.3	650.3
35°	3408.9	2755.0	1037.6	483.6	414.0	398.4	424.0	454.3	490.9	516.6	533.9
37.5°	3491.3	2728.4	783.1	433.2	376.4	361.7	382.0	399.4	414.0	421.3	429.5
40°	3669.0	2756.8	627.3	407.5	355.3	337.1	345.3	351.7	360.9	368.2	371.8
42.5°	3930.9	2842.0	562.3	397.4	344.3	317.8	316.0	318.7	330.6	344.3	347.1
45°	4297.2	2992.2	557.8	403.9	338.9	302.2	294.0	297.6	316.0	337.1	340.7
47.5°	4765.4	3221.2	594.4	423.2	343.4	294.0	280.2	284.8	307.8	336.1	340.7
50°	5332.2	3540.8	655.8	451.6	363.7	295.9	275.7	278.4	302.2	333.3	337.9
52.5°	6001.7	3994.1	722.6	479.0	384.7	307.8	279.3	272.9	294.9	322.5	327.9
55°	6746.3	4575.7	791.4	503.6	395.6	322.5	286.7	265.6	281.2	304.1	308.6
57.5°	7660.3	5389.0	910.3	527.5	402.9	332.4	294.0	258.3	263.8	280.2	284.0
60°	8897.7	6539.3	1120.1	566.9	419.4	336.1	293.1	251.9	246.4	255.5	257.5
62.5°	10380.5	7788.5	1295.0	616.3	447.0	338.9	287.6	247.3	231.7	231.7	233.6
65°	11260.7	8122.9	1197.9	657.6	469.9	336.1	281.2	242.7	220.7	210.7	211.5
67.5°	10514.2	7143.8	1026.7	665.8	468.9	323.3	271.1	234.5	209.8	194.2	193.3
69°	9579.1	6163.9	949.8	643.9	447.0	306.8	258.3	225.3	201.5	184.9	184.1
70°	8825.3	5565.7	899.4	620.0	423.2	294.9	248.2	217.1	195.0	179.5	177.6
72.5°	6416.6	3647.0	768.4	533.0	349.0	247.3	214.3	190.5	174.0	164.9	163.1
75°	3206.4	1739.3	623.8	432.3	267.4	197.9	175.8	159.4	151.1	149.2	148.4
77.5°	1053.3	796.8	446.0	322.5	198.8	154.8	141.9	130.0	128.3	133.8	131.8
80°	578.8	463.5	283.0	213.4	135.6	113.5	111.8	105.3	108.0	117.2	115.4
82.5°	294.9	240.9	175.0	128.3	91.6	81.5	88.8	85.2	88.8	97.1	96.1
85°	145.7	131.8	110.8	77.9	60.4	52.2	63.2	66.0	67.7	74.2	74.2
87.5°	84.2	77.9	58.6	36.6	30.3	27.5	36.6	35.7	42.2	45.8	44.9
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)