

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: P192894

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192894
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-06-LED-E1-SL3-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 22687.7 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 193
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



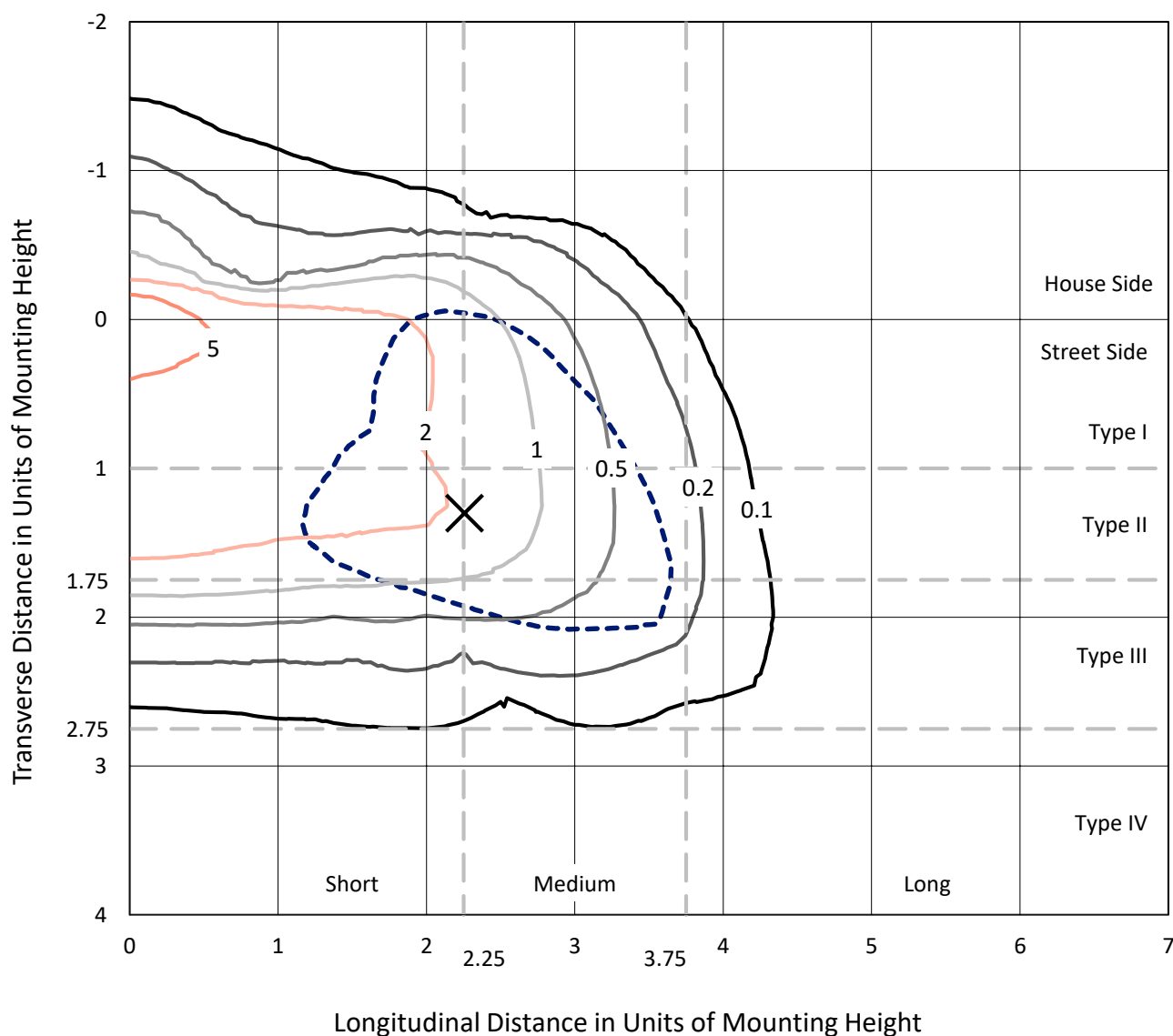
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

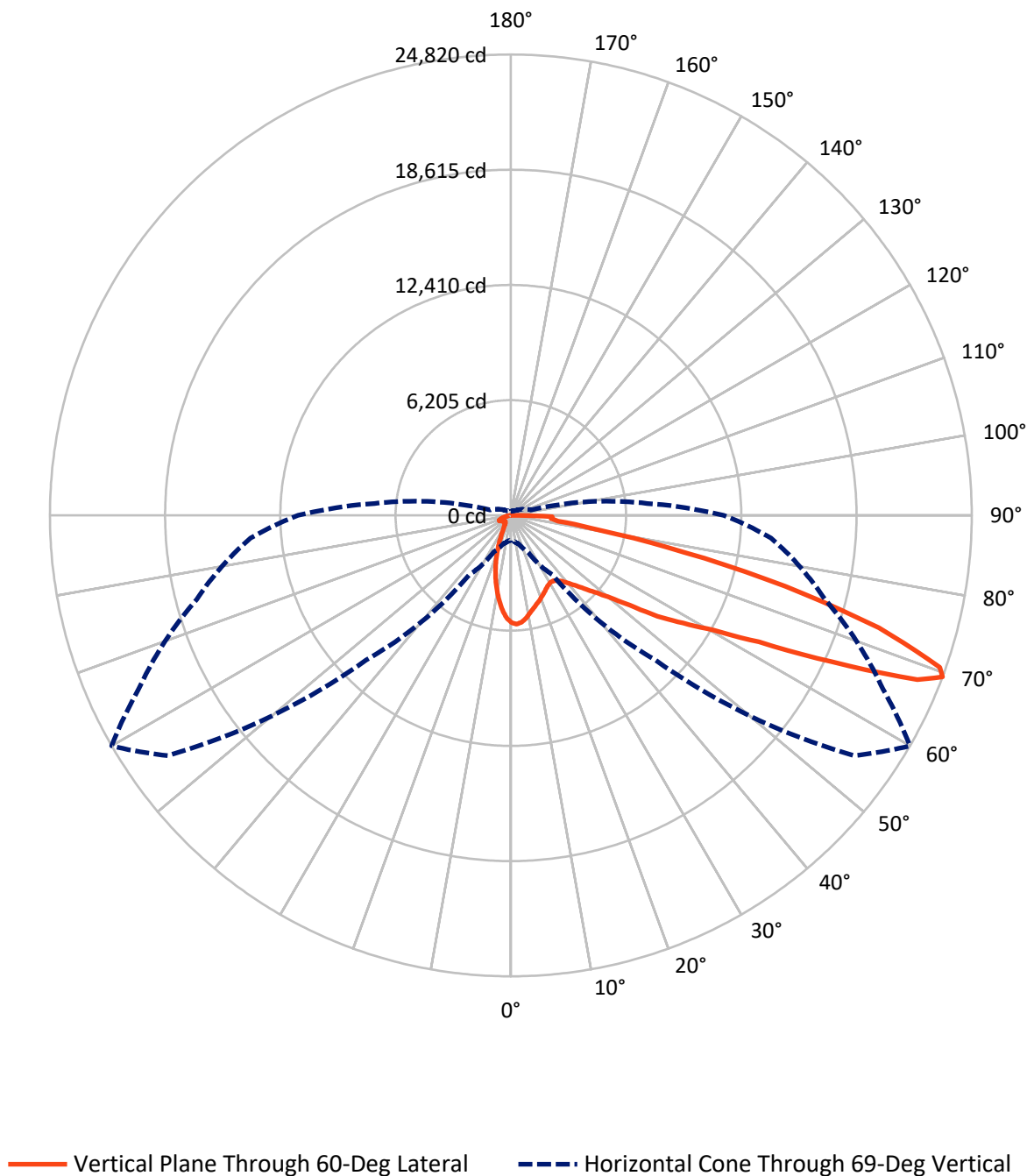


Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3227.7	0.0	3227.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	19459.9	0.0	19459.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	22687.7	0.0	22687.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.8	2.2
10°-20°	1041.5	4.6
20°-30°	1327.0	5.8
30°-40°	1824.3	8.0
40°-50°	2960.1	13.0
50°-60°	4747.2	20.9
60°-70°	6318.2	27.8
70°-80°	3411.3	15.0
80°-90°	569.2	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°	22687.7	100.0
0°-180°	22687.7	100.0

Coefficient of Utilization



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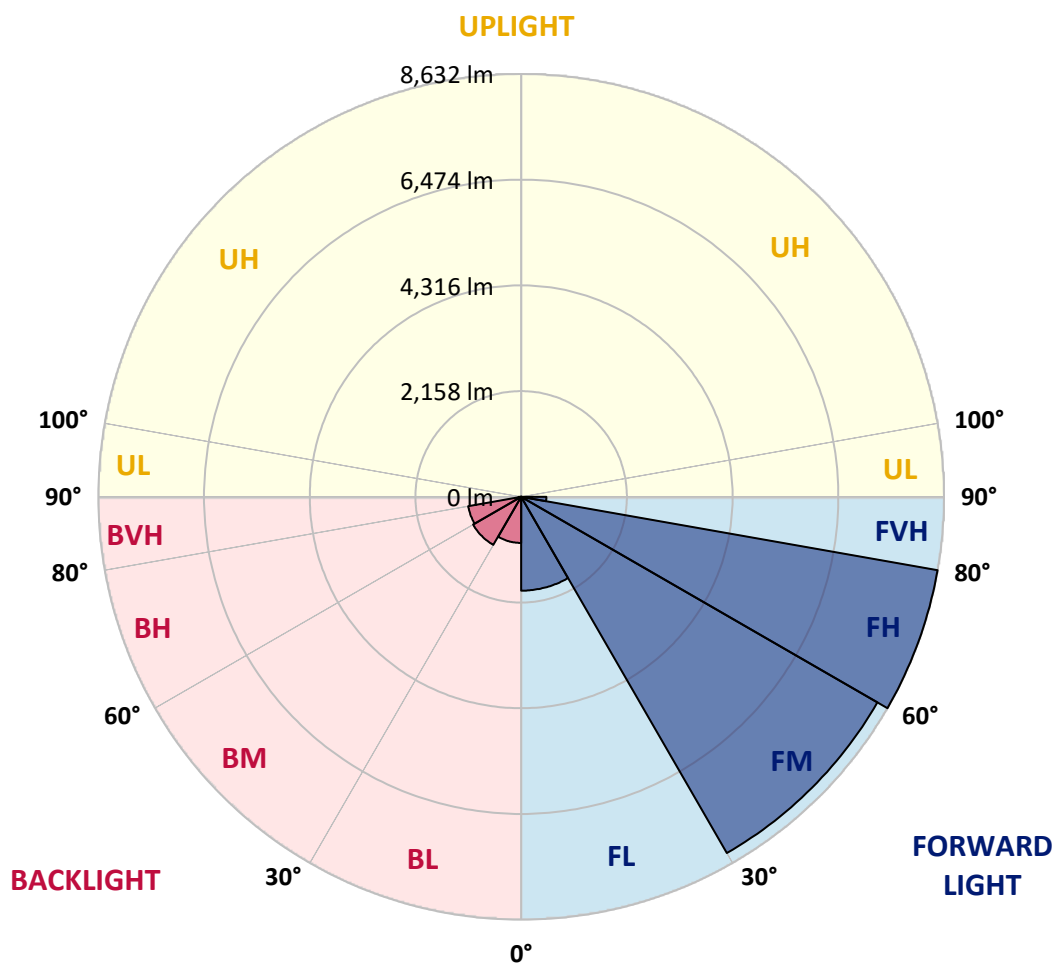
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1915.7	8.4			
FM	(30°-60°)	8397.7	37.0			
FH	(60°-80°)	8632.2	38.0			G4/12000
FVH	(80°-90°)	514.4	2.3			G4/750
BL	(0°-30°)	941.6	4.2	B2/1000		
BM	(30°-60°)	1134.0	5.0	B2/2500		
BH	(60°-80°)	1097.3	4.8	B3/2500		G3/2500
BVH	(80°-90°)	54.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	5781.1	5781.1	5781.1	5781.1	5781.1	5781.1	5781.1	5781.1	5781.1	5781.1	5781.1
2.5°	5899.6	5912.7	5907.2	5904.0	5913.7	5898.5	5866.6	5856.8	5841.4	5805.3	5743.9
5°	5678.1	5717.6	5715.5	5745.0	5794.3	5807.4	5793.3	5795.4	5766.9	5722.0	5620.1
7.5°	5295.7	5312.0	5320.8	5385.5	5475.4	5547.7	5609.2	5628.8	5615.7	5577.3	5445.8
10°	4901.2	4914.3	4935.1	5010.7	5124.7	5224.4	5340.6	5407.5	5435.9	5429.3	5282.4
12.5°	4562.4	4575.7	4603.0	4688.6	4824.5	4947.2	5115.9	5199.2	5267.2	5307.7	5149.9
15°	4258.9	4287.4	4313.7	4412.3	4564.7	4725.8	4916.4	5021.7	5126.9	5217.9	5032.6
17.5°	4022.2	4050.7	4066.0	4155.9	4318.0	4515.3	4738.9	4862.8	4994.2	5143.3	4916.4
20°	3885.2	3898.3	3891.7	3942.2	4087.9	4297.2	4562.4	4706.1	4865.0	5073.1	4800.3
22.5°	3846.8	3847.9	3823.7	3818.3	3912.6	4089.0	4373.9	4548.3	4743.3	5027.1	4700.6
25°	3940.0	3936.7	3870.9	3817.2	3827.1	3930.0	4192.1	4394.7	4641.4	5017.3	4623.9
27.5°	4147.1	4157.0	4059.4	3958.6	3858.8	3855.5	4053.9	4267.6	4558.1	5062.2	4591.0
30°	4437.6	4454.0	4349.8	4221.7	4034.2	3879.7	4000.2	4192.1	4506.6	5155.4	4585.5
32.5°	4755.4	4772.9	4694.0	4559.2	4313.7	4028.7	4037.4	4198.7	4504.4	5285.8	4622.8
35°	5094.0	5113.8	5073.1	4959.2	4686.3	4303.8	4179.9	4305.0	4575.7	5485.3	4722.5
37.5°	5472.1	5502.9	5513.8	5405.3	5113.8	4666.6	4413.4	4506.6	4736.7	5762.6	4905.5
40°	6016.8	6059.5	6056.2	5900.6	5603.6	5156.5	4774.0	4798.1	4987.6	6132.9	5198.1
42.5°	7060.2	7069.0	6796.0	6457.3	6142.9	5671.5	5199.2	5179.4	5334.0	6602.0	5628.8
45°	8387.4	8351.2	7744.1	7089.8	6706.2	6263.4	5752.7	5656.3	5773.5	7174.1	6168.0
47.5°	9488.8	9405.5	8638.4	7735.2	7302.4	6906.8	6402.6	6233.8	6298.5	7823.0	6865.1
50°	9871.2	9808.8	9173.2	8272.2	7866.7	7691.5	7202.6	6963.7	6981.2	8596.6	7681.6
52.5°	9789.1	9780.4	9356.2	8626.2	8395.1	8515.5	8335.8	8012.5	7841.5	9456.0	8562.6
55°	9595.0	9613.7	9460.3	9038.4	8998.9	9311.3	9816.5	9577.5	9046.0	10322.9	9473.5
57.5°	8921.1	8969.3	9306.8	9556.7	9971.0	10435.7	11008.9	10940.9	10342.5	11259.8	10556.2
60°	7187.3	7299.1	8204.3	9456.0	10971.6	12424.9	12681.2	12523.6	11679.6	12422.7	11986.5
62.5°	5035.9	5152.1	6228.4	8186.8	10807.3	14671.6	15671.0	14990.5	13599.7	14135.6	13837.5
65°	2696.1	2751.9	3573.9	5680.4	9123.8	15135.1	20040.7	19005.0	16639.8	16247.5	15421.2
67.5°	1487.2	1517.9	1832.4	2868.2	5843.6	13327.9	22824.4	23606.9	20439.5	17653.7	15133.0
69°	1344.8	1373.3	1579.3	2172.2	3910.4	11019.9	22552.5	24820.1	22105.5	17514.5	14067.6
70°	1315.2	1341.4	1526.7	2002.2	3165.1	9083.3	21641.8	24509.9	22502.2	17015.8	13138.3
72.5°	1183.6	1212.1	1391.9	1798.5	2704.8	4528.5	17142.9	20723.4	20429.8	14753.8	9965.5
75°	1103.6	1130.0	1434.6	1761.2	2589.8	2865.9	11301.4	15273.3	15017.9	10320.6	5373.5
77.5°	472.3	470.2	665.3	1490.6	2628.1	2774.9	6072.7	9541.4	8705.1	4411.3	1543.1
80°	315.6	310.2	315.6	438.3	2410.0	2790.3	3181.5	4843.0	3658.3	1124.5	760.6
82.5°	271.8	267.4	277.3	267.4	847.2	3184.8	2704.8	2575.5	1739.3	638.9	377.1
85°	183.0	175.4	239.0	240.1	400.0	2829.7	3046.8	2175.5	1407.3	379.2	186.3
87.5°	87.6	85.4	139.2	169.9	234.6	1149.6	3418.2	2229.2	1419.3	193.9	88.7
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°	5781.1	5781.1	5781.1	5781.1	5781.1	5781.1	5781.1	5781.1	5781.1	5781.1	5781.1
2.5°	5725.3	5680.4	5636.4	5583.9	5529.1	5467.8	5437.1	5406.3	5398.7	5389.9	5359.2
5°	5567.5	5503.9	5394.3	5273.7	5146.6	5022.7	4928.4	4869.3	4824.5	4801.4	4760.9
7.5°	5363.6	5270.4	5078.7	4870.4	4656.7	4461.6	4292.9	4186.6	4085.7	4038.6	3984.9
10°	5169.6	5030.4	4732.3	4425.4	4118.6	3823.7	3546.5	3350.3	3176.0	3078.5	3009.5
12.5°	5003.1	4812.4	4399.3	3983.8	3563.0	3143.2	2727.8	2401.2	2128.4	1984.8	1911.4
15°	4840.8	4610.6	4082.5	3555.3	3015.0	2444.0	1898.2	1527.8	1302.1	1212.1	1181.4
17.5°	4694.0	4399.3	3764.6	3123.5	2449.5	1759.0	1275.7	1071.9	985.3	955.7	945.8
20°	4535.1	4185.5	3434.7	2671.9	1859.8	1229.7	996.2	906.3	871.3	862.5	858.1
22.5°	4381.7	3975.1	3119.2	2188.6	1336.0	949.1	855.9	818.7	813.2	820.9	820.9
25°	4251.2	3786.5	2778.3	1683.3	980.9	798.9	766.1	757.2	778.2	806.7	812.2
27.5°	4153.7	3632.0	2415.5	1242.9	781.4	694.9	693.7	708.0	759.5	814.3	825.2
30°	4086.9	3485.2	2027.6	896.5	655.3	611.6	629.2	659.8	735.5	813.2	833.9
32.5°	4052.9	3376.6	1623.1	693.7	561.1	537.0	566.6	603.8	678.4	750.7	778.2
35°	4079.2	3296.7	1241.7	578.6	495.4	476.7	507.4	543.6	587.4	618.1	638.9
37.5°	4177.7	3264.8	937.0	518.4	450.4	432.8	457.0	477.8	495.4	504.1	513.9
40°	4390.4	3298.9	750.7	487.8	425.2	403.2	413.2	420.8	431.8	440.6	444.9
42.5°	4703.8	3400.8	672.9	475.6	412.1	380.3	378.1	381.5	395.6	412.1	415.4
45°	5142.2	3580.5	667.5	483.4	405.5	361.6	351.9	356.1	378.1	403.2	407.6
47.5°	5702.2	3854.4	711.3	506.3	411.1	351.9	335.3	340.9	368.2	402.2	407.6
50°	6380.6	4237.0	784.7	540.3	435.1	354.0	329.9	333.1	361.6	398.9	404.4
52.5°	7181.8	4779.4	864.7	573.2	460.3	368.2	334.3	326.5	352.9	385.8	392.3
55°	8072.8	5475.4	947.0	602.8	473.4	385.8	343.1	317.8	336.4	363.9	369.3
57.5°	9166.6	6448.6	1089.5	631.3	482.3	397.8	351.9	309.1	315.6	335.3	339.8
60°	10647.2	7825.1	1340.4	678.4	501.9	402.2	350.7	301.3	294.8	305.8	308.0
62.5°	12421.5	9320.1	1549.8	737.6	534.9	405.5	344.1	295.9	277.3	277.3	279.4
65°	13474.7	9720.0	1433.5	786.8	562.2	402.2	336.4	290.4	264.1	252.1	253.2
67.5°	12581.5	8548.5	1228.6	796.7	561.1	386.9	324.4	280.6	251.0	232.4	231.2
69°	11462.6	7375.8	1136.6	770.5	534.9	367.1	309.1	269.7	241.1	221.4	220.2
70°	10560.7	6660.1	1076.2	742.0	506.3	352.9	296.9	259.7	233.5	214.8	212.6
72.5°	7678.3	4364.2	919.5	637.8	417.6	295.9	256.4	228.0	208.2	197.3	195.0
75°	3836.9	2081.2	746.4	517.4	320.0	236.8	210.5	190.6	180.9	178.6	177.5
77.5°	1260.3	953.5	533.7	385.8	237.8	185.2	169.9	155.5	153.4	159.9	157.8
80°	692.6	554.6	338.7	255.3	162.2	135.9	133.8	126.0	129.4	140.3	138.1
82.5°	352.9	288.2	209.3	153.4	109.6	97.6	106.3	101.9	106.3	116.2	115.0
85°	174.3	157.8	132.6	93.2	72.3	62.5	75.6	78.8	81.1	88.7	88.7
87.5°	100.8	93.2	70.2	43.8	36.2	32.9	43.8	42.7	50.4	54.8	53.7
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)