

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: P192922

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192922
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-04-LED-E1-SL3-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 25477.1 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - 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



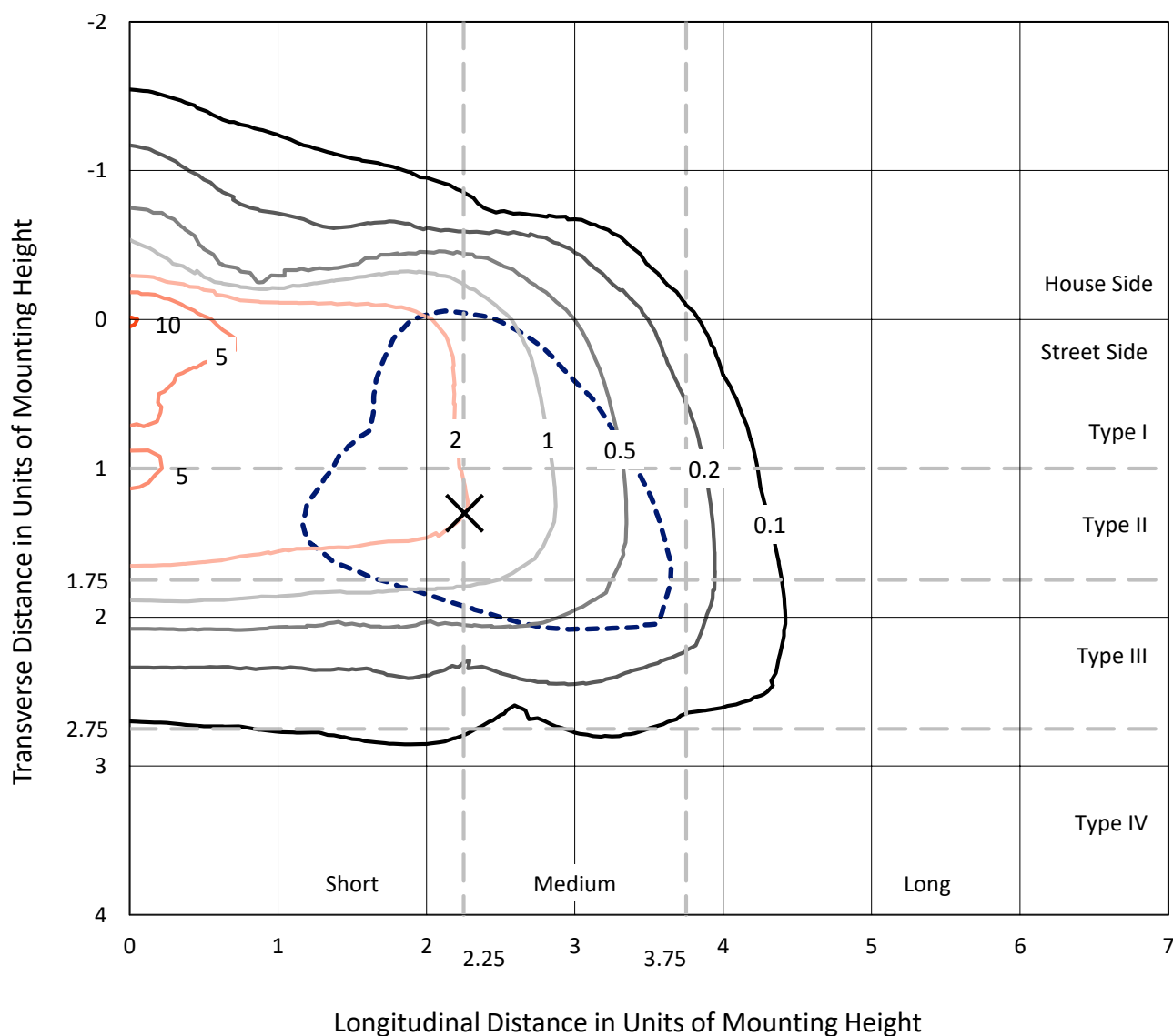
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

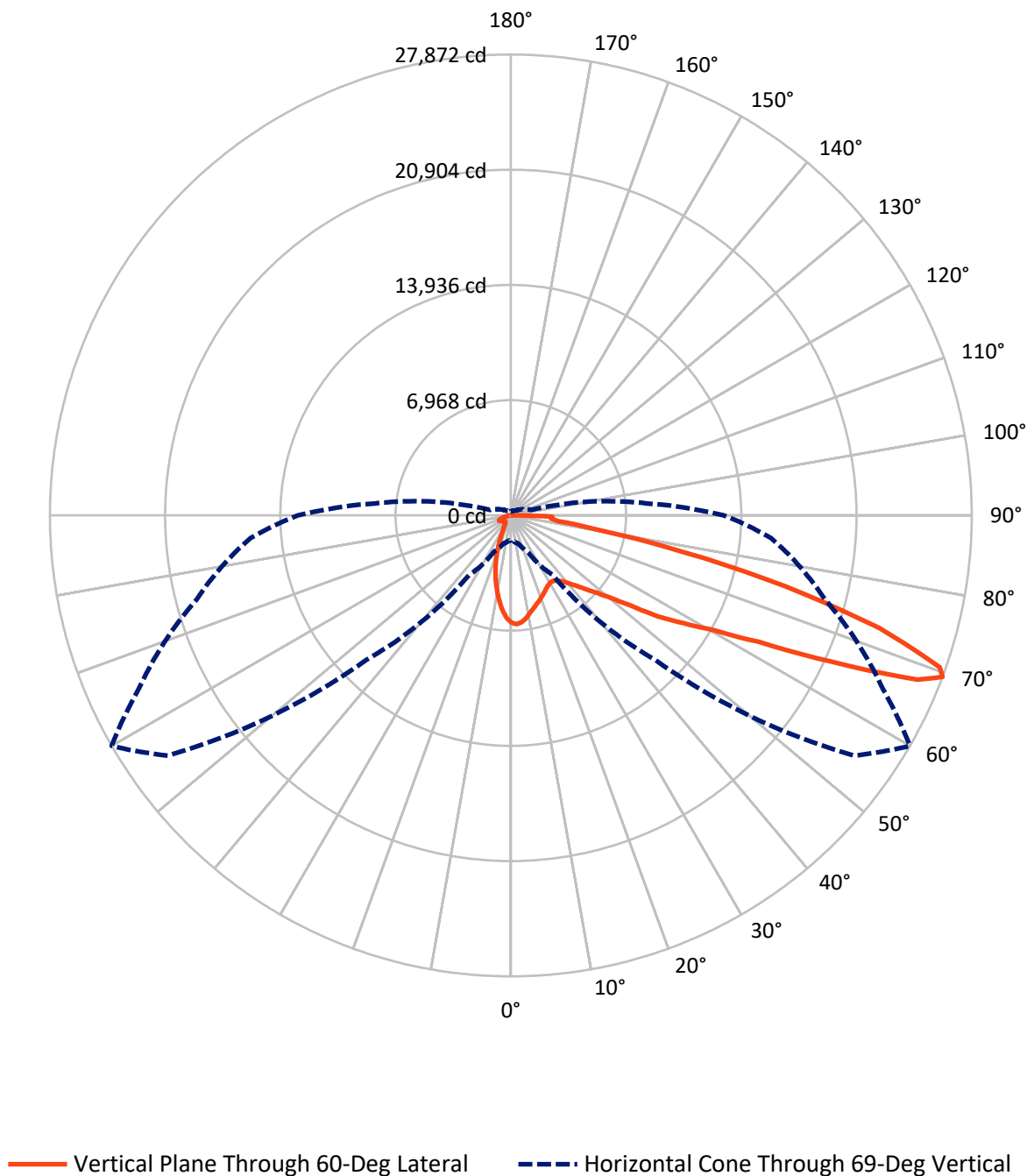


Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3624.6	0.0	3624.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	21852.5	0.0	21852.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	25477.1	0.0	25477.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.9	2.2
10°-20°	1169.5	4.6
20°-30°	1490.2	5.8
30°-40°	2048.6	8.0
40°-50°	3324.0	13.0
50°-60°	5330.9	20.9
60°-70°	7095.0	27.8
70°-80°	3830.8	15.0
80°-90°	639.2	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°	25477.1	100.0
0°-180°	25477.1	100.0

Coefficient of Utilization



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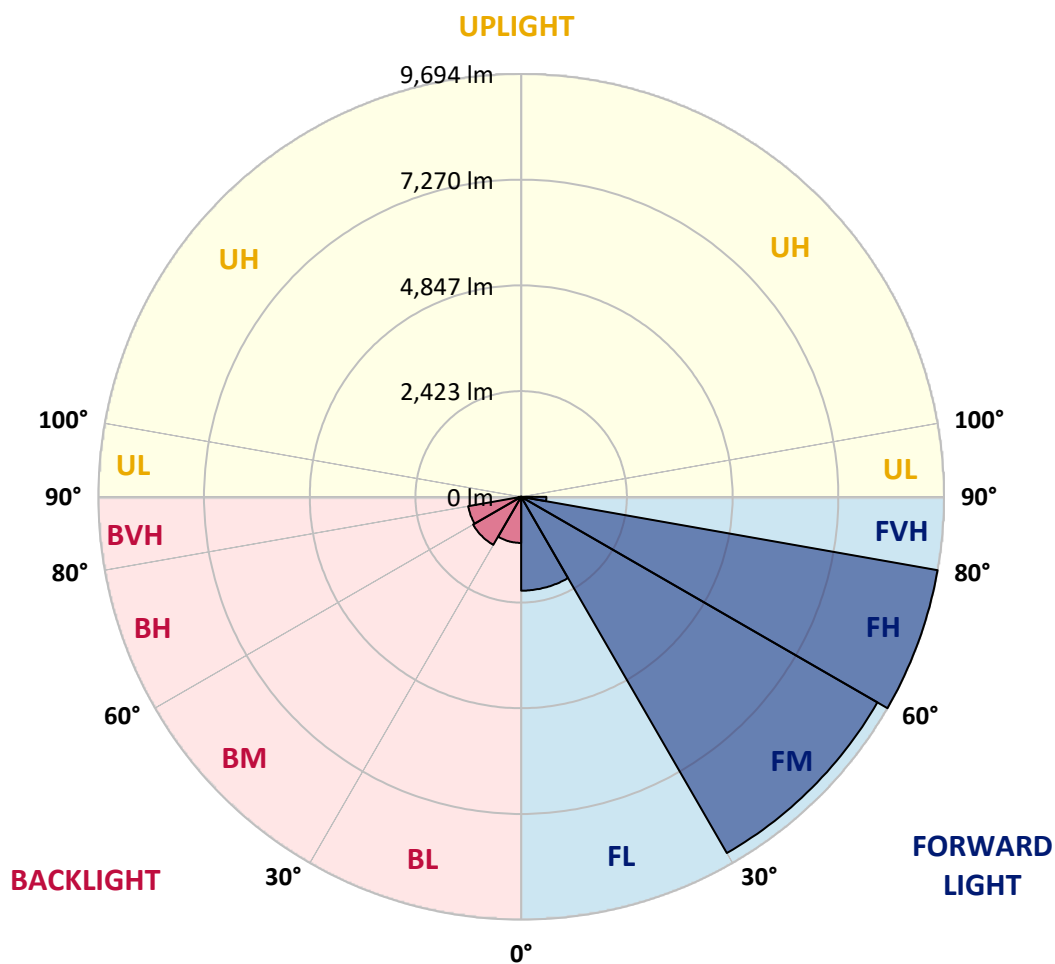
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2151.2	8.4			
FM	(30°-60°)	9430.1	37.0			
FH	(60°-80°)	9693.5	38.0			G4/12000
FVH	(80°-90°)	577.6	2.3			G4/750
BL	(0°-30°)	1057.4	4.2	B3/2500		
BM	(30°-60°)	1273.4	5.0	B2/2500		
BH	(60°-80°)	1232.2	4.8	B3/2500		G3/2500
BVH	(80°-90°)	61.5	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°	6491.9	6491.9	6491.9	6491.9	6491.9	6491.9	6491.9	6491.9	6491.9	6491.9	6491.9
2.5°	6624.8	6639.5	6633.4	6629.8	6640.9	6623.7	6587.9	6576.9	6559.6	6519.1	6450.1
5°	6376.3	6420.5	6418.1	6451.3	6506.7	6521.4	6505.6	6507.9	6475.9	6425.5	6311.1
7.5°	5946.8	5965.2	5975.1	6047.6	6148.6	6229.9	6298.7	6320.8	6306.1	6263.1	6115.3
10°	5503.7	5518.4	5541.8	5626.8	5754.8	5866.7	5997.2	6072.3	6104.4	6096.8	5932.0
12.5°	5123.3	5138.1	5168.9	5264.9	5417.5	5555.4	5745.0	5838.5	5914.8	5960.3	5783.1
15°	4782.5	4814.5	4844.0	4954.8	5125.9	5306.8	5520.9	5639.1	5757.2	5859.3	5651.3
17.5°	4516.7	4548.7	4566.0	4666.8	4848.9	5070.5	5321.6	5460.7	5608.3	5775.7	5520.9
20°	4362.8	4377.6	4370.3	4426.8	4590.5	4825.6	5123.3	5284.7	5463.1	5696.9	5390.5
22.5°	4319.8	4320.9	4293.9	4287.8	4393.7	4591.7	4911.8	5107.5	5326.5	5645.2	5278.5
25°	4424.4	4420.6	4346.9	4286.6	4297.6	4413.3	4707.4	4935.1	5212.0	5634.2	5192.3
27.5°	4656.9	4668.0	4558.6	4445.3	4333.3	4329.6	4552.4	4792.3	5118.5	5684.6	5155.4
30°	4983.1	5001.6	4884.7	4740.6	4530.2	4356.7	4492.0	4707.4	5060.7	5789.2	5149.3
32.5°	5340.0	5359.7	5271.1	5119.7	4844.0	4524.1	4533.9	4714.9	5058.1	5935.6	5191.1
35°	5720.3	5742.4	5696.9	5569.0	5262.5	4833.0	4693.9	4834.1	5138.1	6159.7	5303.1
37.5°	6144.8	6179.3	6191.6	6069.8	5742.4	5240.3	4956.0	5060.7	5319.1	6471.0	5508.7
40°	6756.6	6804.5	6800.9	6626.1	6292.6	5790.4	5361.0	5388.0	5600.9	6887.0	5837.1
42.5°	7928.2	7938.0	7631.5	7251.3	6898.1	6368.8	5838.5	5816.3	5989.8	7413.8	6320.8
45°	9418.5	9377.9	8696.2	7961.4	7530.7	7033.4	6460.0	6351.7	6483.3	8056.1	6926.4
47.5°	10655.4	10561.9	9700.4	8686.3	8200.1	7755.9	7189.8	7000.2	7072.8	8784.8	7709.2
50°	11084.9	11014.8	10301.0	9289.3	8833.9	8637.1	8088.1	7819.9	7839.6	9653.6	8626.0
52.5°	10992.6	10982.7	10506.5	9686.8	9427.2	9562.6	9360.7	8997.6	8805.6	10618.5	9615.5
55°	10774.8	10795.7	10623.4	10149.6	10105.3	10456.0	11023.3	10755.1	10158.2	11592.0	10638.1
57.5°	10017.9	10072.1	10451.0	10731.7	11196.9	11718.7	12362.3	12286.1	11614.1	12644.2	11854.1
60°	8071.0	8196.4	9213.1	10618.5	12320.5	13952.4	14240.5	14063.2	13115.6	13950.0	13460.2
62.5°	5655.0	5785.5	6994.1	9193.3	12136.0	16475.4	17597.8	16833.6	15271.7	15873.6	15538.9
65°	3027.6	3090.3	4013.3	6378.8	10245.6	16996.0	22504.5	21341.6	18685.7	18245.1	17317.1
67.5°	1670.0	1704.6	2057.7	3220.8	6562.1	14966.6	25630.6	26509.2	22952.5	19824.1	16993.5
69°	1510.1	1542.0	1773.4	2439.2	4391.1	12374.7	25325.3	27871.7	24823.2	19667.9	15797.2
70°	1476.8	1506.3	1714.4	2248.4	3554.3	10200.0	24302.6	27523.4	25268.7	19107.8	14753.6
72.5°	1329.1	1361.2	1563.0	2019.5	3037.4	5085.3	19250.6	23271.3	22941.5	16567.6	11190.8
75°	1239.3	1268.8	1611.0	1977.7	2908.2	3218.2	12691.0	17151.1	16864.2	11589.4	6034.2
77.5°	530.5	527.9	747.0	1673.8	2951.2	3116.2	6819.3	10714.5	9775.4	4953.6	1732.9
80°	354.4	348.3	354.4	492.3	2706.4	3133.3	3572.8	5438.5	4108.0	1262.7	854.1
82.5°	305.2	300.3	311.4	300.3	951.3	3576.4	3037.4	2892.1	1953.1	717.5	423.4
85°	205.5	196.8	268.3	269.6	449.2	3177.7	3421.4	2442.9	1580.2	425.8	209.2
87.5°	98.5	96.0	156.3	190.7	263.5	1291.0	3838.6	2503.2	1593.8	217.9	99.7
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°	6491.9	6491.9	6491.9	6491.9	6491.9	6491.9	6491.9	6491.9	6491.9	6491.9	6491.9
2.5°	6429.2	6378.8	6329.5	6270.4	6208.8	6140.0	6105.5	6071.1	6062.5	6052.6	6018.1
5°	6252.0	6180.6	6057.6	5922.2	5779.4	5640.3	5534.4	5468.0	5417.5	5391.7	5346.2
7.5°	6023.0	5918.5	5703.2	5469.2	5229.2	5010.2	4820.6	4701.3	4588.1	4535.2	4474.8
10°	5805.2	5648.9	5314.2	4969.5	4625.0	4293.9	3982.5	3762.3	3566.6	3457.1	3379.5
12.5°	5618.1	5404.0	4940.0	4473.6	4001.0	3529.6	3063.2	2696.5	2390.0	2228.8	2146.3
15°	5435.9	5177.6	4584.4	3992.5	3385.6	2744.5	2131.5	1715.6	1462.1	1361.2	1326.7
17.5°	5271.1	4940.0	4227.5	3507.6	2750.6	1975.3	1432.5	1203.6	1106.4	1073.2	1062.1
20°	5092.7	4700.0	3857.0	3000.5	2088.5	1380.8	1118.7	1017.7	978.4	968.6	963.6
22.5°	4920.4	4463.8	3502.6	2457.7	1500.2	1065.9	961.2	919.3	913.2	921.8	921.8
25°	4773.9	4252.1	3119.8	1890.4	1101.5	897.1	860.3	850.4	873.7	905.8	912.0
27.5°	4664.4	4078.5	2712.5	1395.6	877.5	780.2	779.0	795.1	852.9	914.4	926.7
30°	4589.3	3913.6	2276.8	1006.8	736.0	686.7	706.5	740.9	825.8	913.2	936.6
32.5°	4551.0	3791.9	1822.7	779.0	630.1	603.0	636.3	678.1	761.7	843.1	873.7
35°	4580.7	3701.9	1394.3	649.8	556.2	535.4	569.8	610.4	659.7	694.2	717.5
37.5°	4691.5	3666.3	1052.2	582.2	505.9	486.1	513.2	536.6	556.2	566.1	577.2
40°	4930.3	3704.4	843.1	547.6	477.5	452.9	464.1	472.5	484.9	494.7	499.7
42.5°	5282.1	3818.8	755.6	534.2	462.7	427.1	424.6	428.3	444.2	462.7	466.4
45°	5774.5	4020.7	749.5	542.7	455.4	406.1	395.1	400.0	424.6	452.9	457.8
47.5°	6403.3	4328.5	798.6	568.5	461.5	395.1	376.6	382.7	413.5	451.7	457.8
50°	7165.1	4757.9	881.1	606.7	488.6	397.4	370.4	374.1	406.1	448.0	454.1
52.5°	8064.8	5367.1	971.0	643.6	516.9	413.5	375.5	366.8	396.3	433.2	440.7
55°	9065.4	6148.6	1063.3	676.9	531.6	433.2	385.2	356.9	377.8	408.6	414.7
57.5°	10293.6	7241.4	1223.2	708.9	541.5	446.8	395.1	347.0	354.4	376.6	381.6
60°	11956.2	8787.1	1505.1	761.7	563.7	451.7	393.8	338.4	331.0	343.4	345.8
62.5°	13948.8	10465.8	1740.2	828.3	600.6	455.4	386.4	332.2	311.4	311.4	313.8
65°	15131.5	10915.1	1609.7	883.7	631.3	451.7	377.8	326.1	296.6	283.1	284.3
67.5°	14128.5	9599.5	1379.6	894.8	630.1	434.5	364.3	315.1	281.8	260.9	259.7
69°	12872.0	8282.6	1276.2	865.3	600.6	412.2	347.0	302.7	270.8	248.6	247.4
70°	11859.0	7479.1	1208.5	833.2	568.5	396.3	333.6	291.7	262.1	241.3	238.7
72.5°	8622.3	4900.6	1032.6	716.3	468.9	332.2	288.0	256.0	233.9	221.6	219.1
75°	4308.6	2337.0	838.1	580.9	359.4	265.8	236.3	214.1	203.1	200.6	199.4
77.5°	1415.4	1070.7	599.4	433.2	267.0	208.0	190.7	174.7	172.3	179.7	177.2
80°	777.8	622.8	380.3	286.8	182.1	152.6	150.1	141.5	145.2	157.6	155.0
82.5°	396.3	323.6	235.0	172.3	123.0	109.5	119.4	114.5	119.4	130.4	129.3
85°	195.7	177.2	148.9	104.6	81.2	70.2	84.9	88.6	91.1	99.7	99.7
87.5°	113.2	104.6	78.7	49.2	40.7	36.9	49.2	48.0	56.6	61.5	60.3
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)