

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: P194423

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23547 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 210
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



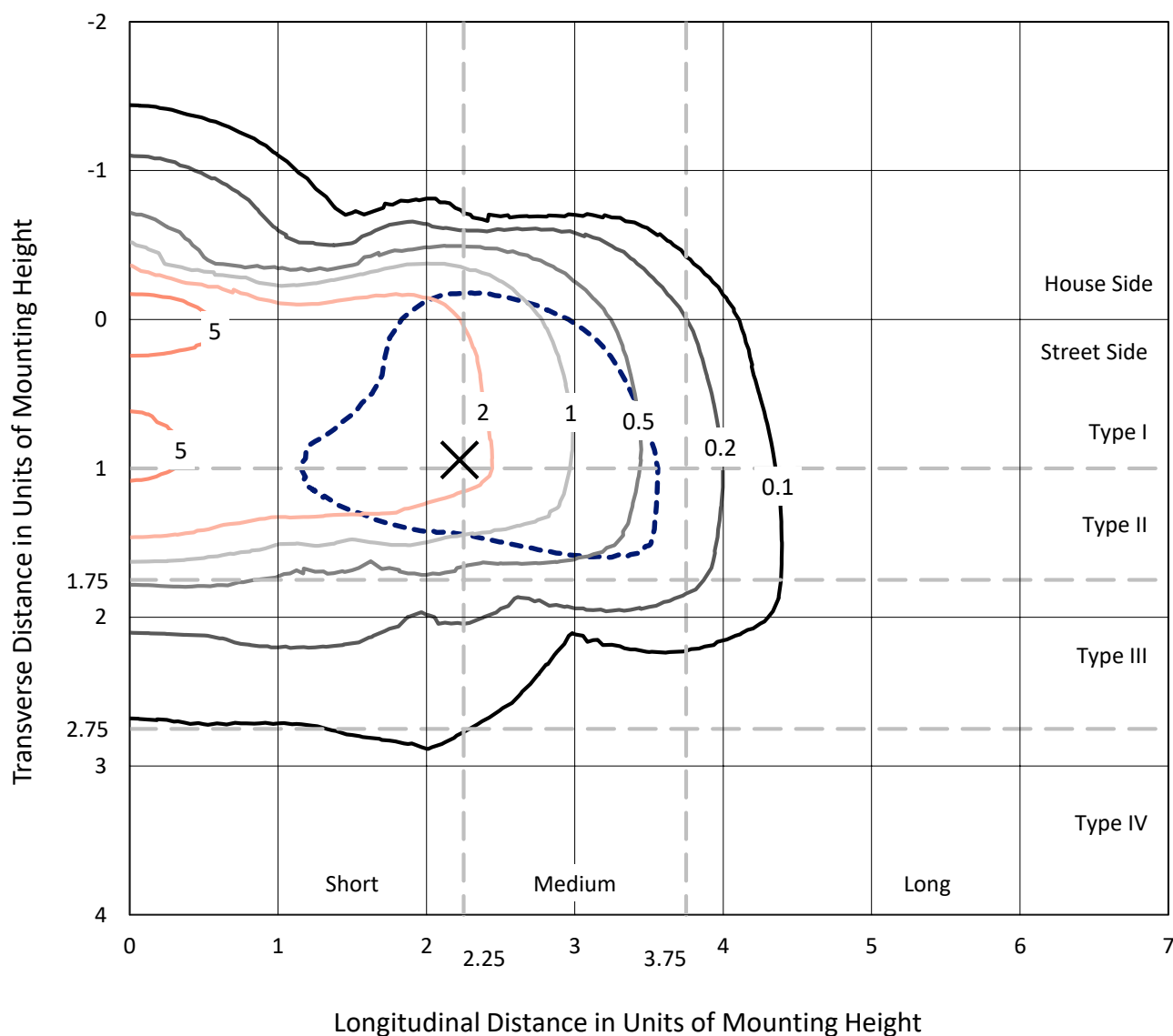
REPORT NUMBER: P194423

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL2-7060-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

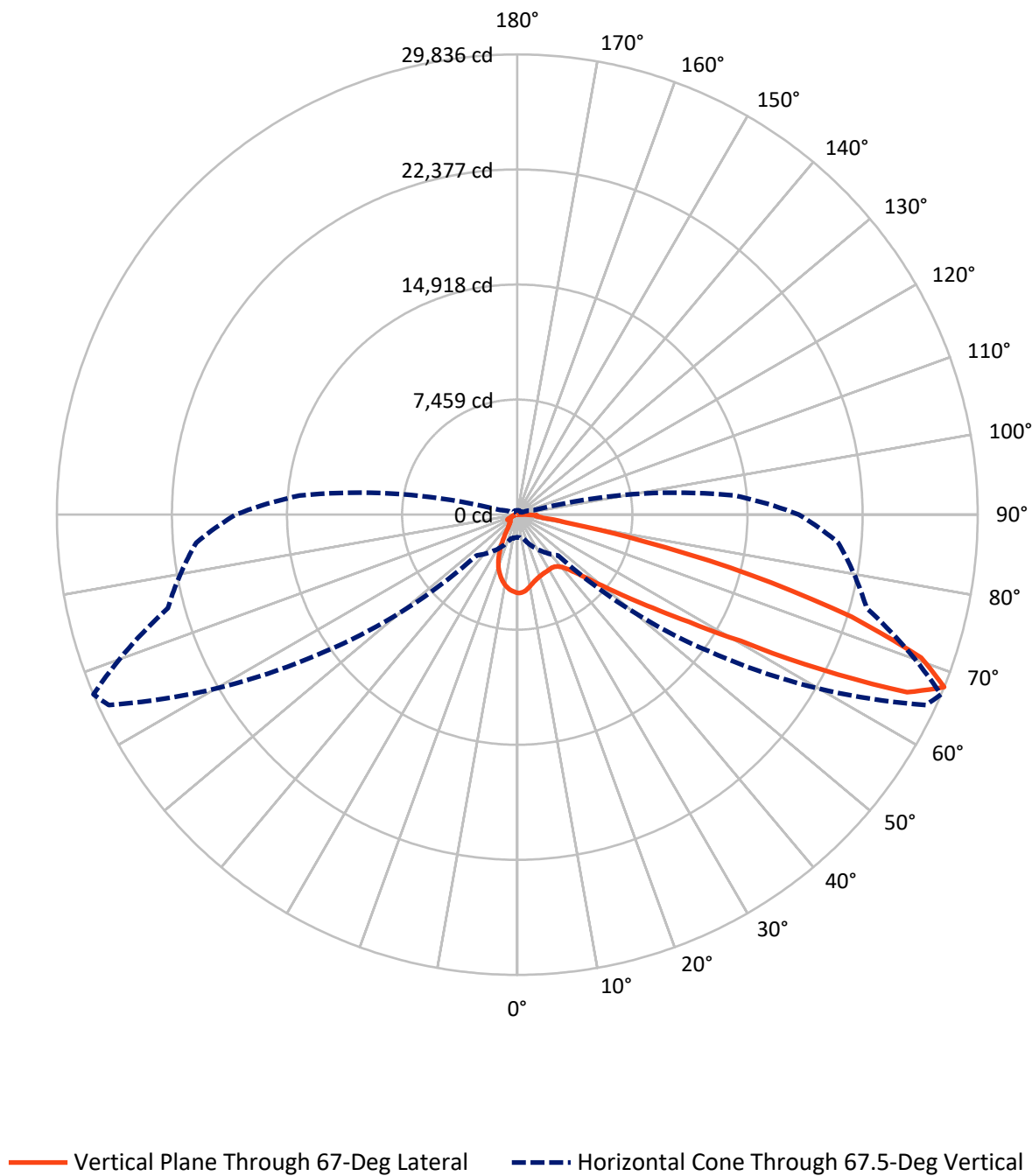


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
Type II - Short - Semi-Cutoff

REPORT NUMBER: P194423

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL2-7060-800

Luminous Intensity Polar Plot



REPORT NUMBER: P194423

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3901.5	0.0	3901.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	19645.5	0.0	19645.5
	% Fixture	83.4	0.0	83.4
Total	Lumens	23547.0	0.0	23547.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.3	1.8
10°-20°	1002.6	4.3
20°-30°	1359.1	5.8
30°-40°	1932.1	8.2
40°-50°	3232.4	13.7
50°-60°	5113.7	21.7
60°-70°	6514.3	27.7
70°-80°	3412.2	14.5
80°-90°	547.3	2.3
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°	23547.0	100.0
0°-180°	23547.0	100.0

Coefficient of Utilization



REPORT NUMBER: P194423

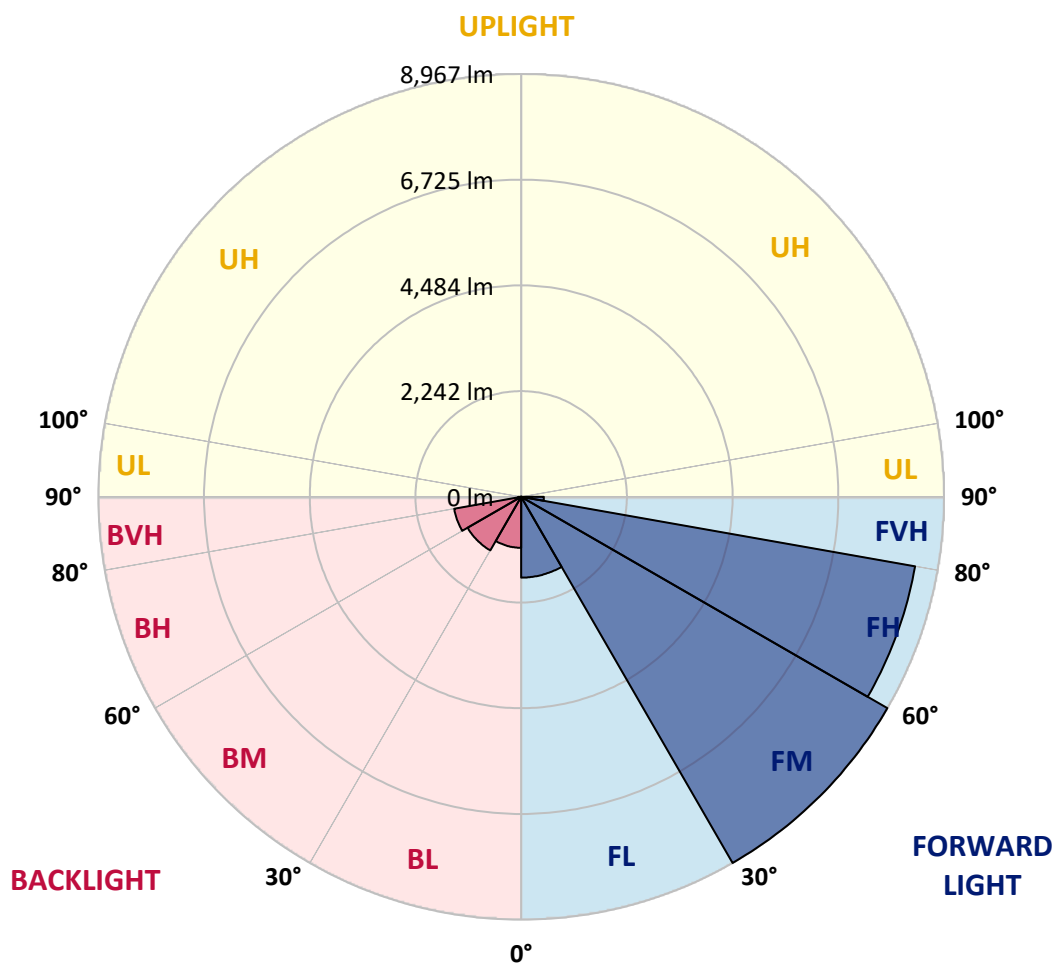
CATALOG NUMBER: GLEON-AF-05-LED-E1-SL2-7060-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1713.6	7.3			
FM	(30°-60°)	8967.2	38.1			
FH	(60°-80°)	8483.5	36.0			G4/12000
FVH	(80°-90°)	481.2	2.0			G3/500
BL	(0°-30°)	1081.4	4.6	B3/2500		
BM	(30°-60°)	1311.0	5.6	B2/2500		
BH	(60°-80°)	1443.0	6.1	B3/2500		G3/2500
BVH	(80°-90°)	66.1	0.3			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 II Short



REPORT NUMBER: P194423

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL2-7060-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5079.0	5079.0	5079.0	5079.0	5079.0	5079.0	5079.0	5079.0	5079.0	5079.0	5079.0
2.5°	4870.0	4878.1	4903.7	4919.9	4993.1	5024.5	5046.5	5068.6	5072.1	5082.5	5072.1
5°	4359.1	4376.5	4424.1	4477.5	4619.2	4730.7	4848.0	4969.9	4991.9	5070.9	5093.0
7.5°	3963.1	3958.5	3998.0	4061.8	4207.0	4361.4	4566.9	4809.6	4857.2	5034.9	5120.8
10°	3674.0	3670.5	3712.3	3778.5	3916.7	4063.0	4295.2	4627.3	4694.7	4978.0	5147.5
12.5°	3460.3	3461.5	3503.3	3576.5	3717.0	3864.4	4100.1	4450.8	4536.8	4911.8	5175.4
15°	3318.7	3328.0	3361.6	3439.4	3576.5	3723.9	3955.0	4318.5	4414.8	4859.6	5206.8
17.5°	3271.1	3286.2	3297.8	3354.7	3471.9	3619.4	3845.9	4220.9	4323.1	4823.6	5234.6
20°	3315.2	3332.6	3310.5	3330.3	3404.6	3534.7	3759.9	4144.3	4248.8	4782.9	5238.1
22.5°	3504.5	3520.7	3455.7	3398.8	3394.1	3473.1	3689.1	4083.9	4191.9	4752.7	5239.3
25°	3837.7	3848.2	3739.0	3606.6	3477.8	3451.0	3639.2	4042.1	4157.0	4726.0	5217.2
27.5°	4246.5	4254.6	4129.2	3934.1	3675.2	3503.3	3621.7	4017.7	4137.3	4702.8	5180.1
30°	4743.4	4781.8	4613.4	4367.2	3989.8	3657.7	3656.6	4004.9	4115.2	4663.3	5106.9
32.5°	5252.0	5268.3	5152.2	4902.5	4413.7	3929.5	3754.1	4014.2	4109.4	4615.7	5014.0
35°	5767.6	5788.5	5713.0	5512.2	4993.1	4327.7	3944.6	4068.8	4145.4	4599.5	4949.0
37.5°	6435.3	6463.2	6358.7	6126.4	5697.9	4867.7	4261.6	4205.8	4255.7	4645.9	4929.2
40°	7490.8	7478.0	7172.6	6826.6	6469.0	5558.6	4714.4	4438.1	4467.1	4795.7	4989.6
42.5°	8719.4	8688.0	8162.0	7618.5	7316.6	6394.7	5313.6	4841.0	4835.2	5090.6	5202.1
45°	9699.4	9673.8	9200.1	8530.1	8288.5	7346.8	6088.1	5441.3	5398.4	5558.6	5594.6
47.5°	10230.1	10231.2	9958.3	9411.4	9405.6	8556.8	7083.2	6309.9	6235.6	6311.0	6272.7
50°	10044.3	10068.6	10039.6	9865.4	10425.1	10143.0	8382.6	7521.0	7371.2	7445.5	7298.1
52.5°	9145.5	9176.9	9348.7	9615.8	10853.6	12060.1	10291.6	9025.9	8851.7	8825.0	8661.3
55°	7552.4	7590.7	7941.4	8667.1	10497.1	13347.8	13303.7	10944.2	10666.7	10414.7	10345.0
57.5°	5205.6	5269.5	5833.8	6911.4	9344.1	13736.8	16890.6	13678.8	13114.4	12234.3	12250.5
60°	2934.3	3008.6	3674.0	4652.9	7017.1	13314.2	19619.4	17820.7	16629.4	14365.0	14485.8
62.5°	1866.0	1946.1	2451.3	3232.7	4210.5	11038.2	20737.6	23579.1	22066.0	16991.6	17110.1
65°	1510.7	1545.5	1783.6	2668.4	3057.4	6650.1	19888.8	28322.5	27758.2	20325.4	19772.7
67.5°	1474.7	1486.3	1609.4	2239.9	2932.0	3737.9	15864.1	29209.6	29835.5	23438.6	20881.6
70°	1457.3	1497.9	1813.8	2137.7	2807.7	3152.6	9533.3	26778.1	27766.3	24252.5	19405.8
72.5°	707.2	704.8	912.7	1933.4	3163.1	3269.9	4897.9	21666.6	22658.2	21011.7	15946.6
75°	570.1	521.4	498.1	708.3	3041.1	3376.7	3121.3	14908.5	15626.1	14087.5	9802.7
77.5°	541.1	483.1	442.4	443.6	1285.4	3581.1	2644.0	8251.4	8460.4	6363.3	2685.8
80°	448.2	394.8	365.8	412.2	622.4	3410.4	2858.8	3734.4	3426.7	1563.0	894.1
82.5°	311.2	283.3	275.2	346.0	498.1	2430.4	3324.5	2006.5	1682.6	782.6	551.6
85°	198.6	169.5	188.1	252.0	387.8	1121.7	3424.3	1564.1	1243.6	497.0	311.2
87.5°	91.7	74.3	92.9	139.3	253.1	386.7	3258.3	1756.9	1280.8	262.4	196.2
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: P194423

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL2-7060-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5079.0	5079.0	5079.0	5079.0	5079.0	5079.0	5079.0	5079.0	5079.0	5079.0	5079.0
2.5°	5081.4	5059.3	5041.9	5009.4	4973.4	4938.5	4907.2	4867.7	4856.1	4845.6	4861.9
5°	5097.6	5075.5	5011.7	4911.8	4801.5	4698.2	4594.8	4506.6	4452.0	4421.8	4439.2
7.5°	5122.0	5090.6	4958.3	4774.8	4576.2	4395.1	4208.1	4058.3	3948.0	3895.8	3910.9
10°	5144.1	5083.7	4867.7	4592.5	4302.2	4032.8	3737.9	3494.0	3312.9	3217.6	3240.9
12.5°	5153.3	5057.0	4741.1	4364.9	3966.6	3571.8	3137.5	2772.9	2512.8	2417.6	2397.9
15°	5162.6	5026.8	4601.8	4106.0	3561.4	3002.8	2394.4	1957.8	1741.8	1694.2	1683.7
17.5°	5165.0	4974.5	4443.9	3824.9	3086.4	2325.9	1637.3	1359.7	1360.9	1437.5	1446.8
20°	5140.6	4896.7	4252.3	3475.4	2517.5	1608.2	1124.0	1076.4	1251.8	1443.4	1466.6
22.5°	5084.8	4793.4	4035.1	3067.9	1866.0	1059.0	869.7	922.0	1148.4	1383.0	1409.7
25°	5014.0	4668.0	3778.5	2595.3	1235.5	757.1	729.2	793.1	946.4	1103.1	1118.2
27.5°	4917.6	4519.3	3490.5	2054.1	802.4	623.6	642.1	685.1	747.8	817.5	824.4
30°	4793.4	4341.7	3182.8	1497.9	606.1	560.9	587.6	610.8	637.5	677.0	680.5
32.5°	4650.6	4171.0	2867.0	1034.6	537.6	528.3	549.2	560.9	581.8	606.1	608.5
35°	4531.0	4008.4	2539.5	731.5	508.6	504.0	517.9	522.5	542.3	569.0	571.3
37.5°	4462.4	3876.0	2201.6	589.9	488.9	481.9	490.0	490.0	517.9	557.4	563.2
40°	4467.1	3802.9	1863.7	533.0	472.6	463.3	464.5	464.5	500.5	543.4	546.9
42.5°	4593.7	3821.5	1564.1	510.9	459.8	449.4	443.6	447.1	477.2	505.1	507.4
45°	4890.9	3952.7	1283.1	497.0	447.1	443.6	430.8	429.6	441.3	454.0	454.0
47.5°	5378.6	4211.6	1092.7	487.7	436.6	435.4	420.3	405.3	404.1	408.7	408.7
50°	6171.7	4657.5	964.9	477.2	429.6	420.3	402.9	379.7	371.6	375.1	375.1
52.5°	7360.8	5452.9	916.2	463.3	414.5	399.4	379.7	356.5	349.5	350.7	350.7
55°	8920.2	6674.5	909.2	447.1	398.3	373.9	357.6	340.2	332.1	334.4	334.4
57.5°	10825.7	8364.0	1033.5	421.5	376.2	348.4	339.1	327.5	321.6	325.1	324.0
60°	13142.3	10574.9	1532.8	394.8	354.2	325.1	325.1	315.8	311.2	314.7	313.5
62.5°	15810.7	13114.4	2155.2	375.1	330.9	306.6	311.2	306.6	301.9	304.2	303.1
65°	18177.2	14769.1	2018.1	360.0	307.7	289.1	297.3	294.9	291.5	293.8	292.6
67.5°	18245.7	14156.0	1133.3	343.7	285.7	271.7	283.3	282.2	279.8	282.2	281.0
70°	16283.3	11953.3	638.7	313.5	262.4	250.8	267.1	265.9	263.6	268.2	267.1
72.5°	13045.9	8674.1	466.8	276.4	239.2	228.8	247.3	246.2	246.2	253.1	249.7
75°	7507.1	4463.6	372.7	236.9	214.8	206.7	222.9	224.1	226.4	235.7	228.8
77.5°	2140.1	1391.1	304.2	200.9	184.6	181.1	197.4	199.7	200.9	211.3	202.0
80°	795.4	641.0	250.8	168.4	151.0	152.1	167.2	170.7	171.9	182.3	170.7
82.5°	507.4	422.7	203.2	130.1	118.4	117.3	135.9	140.5	140.5	141.7	134.7
85°	296.1	253.1	153.3	94.1	83.6	80.1	101.0	109.2	105.7	103.3	98.7
87.5°	198.6	174.2	94.1	52.3	45.3	43.0	59.2	65.0	62.7	59.2	55.7
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)