

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: P192976

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192976
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-08-LED-E1-SL4-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA 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: 28885.9 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 257
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

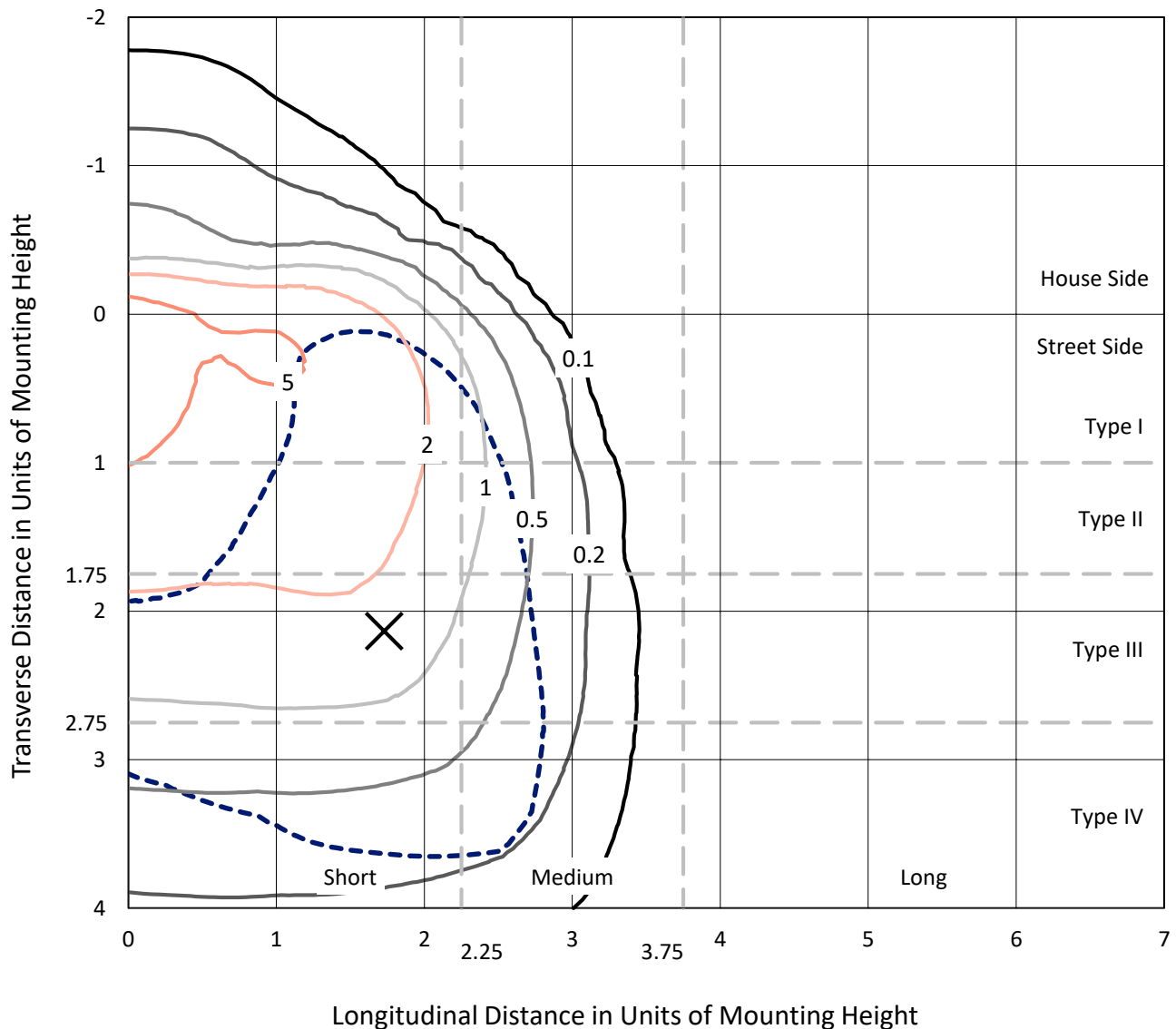


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

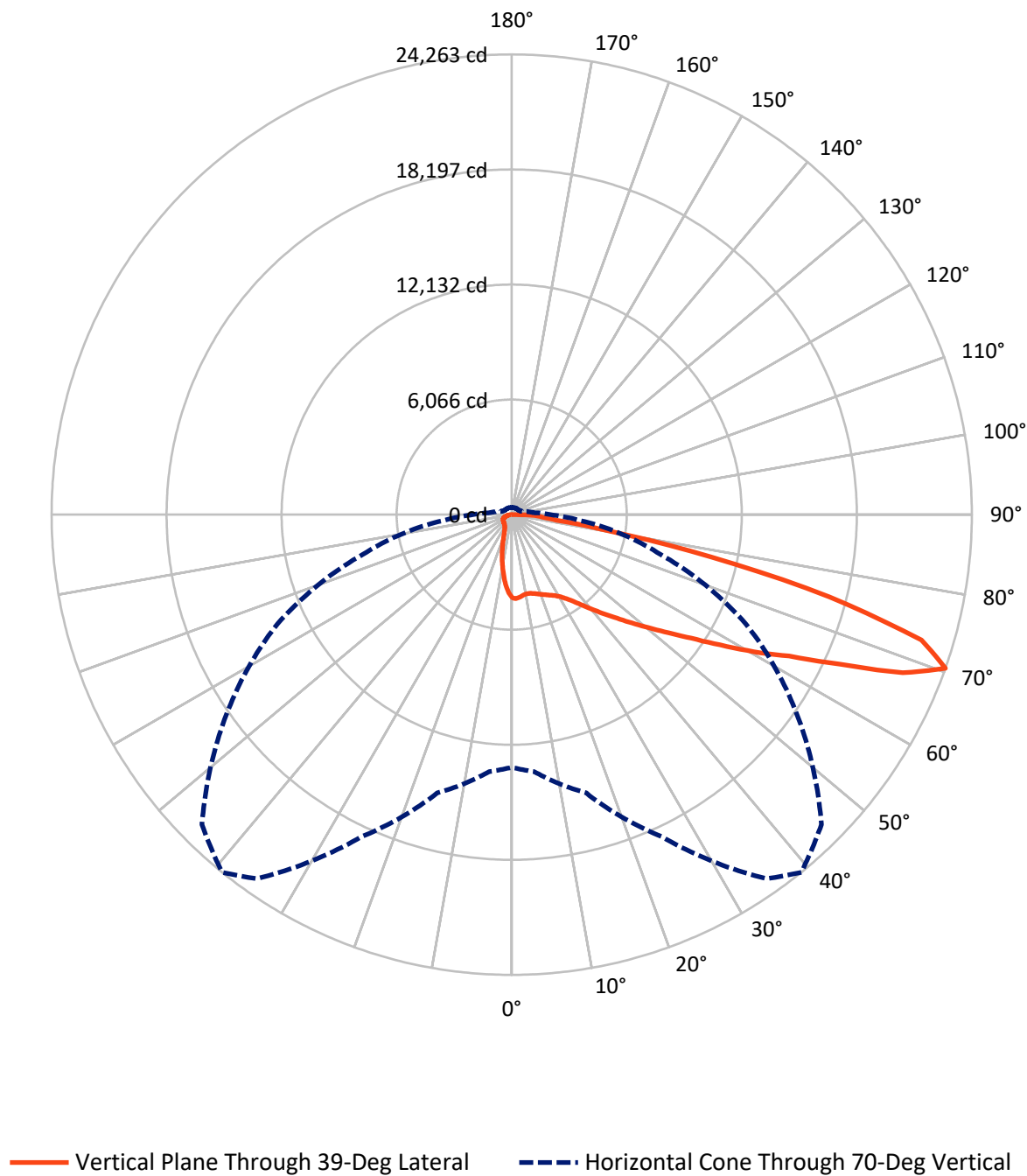


Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3285.3	0.0	3285.3
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	25600.6	0.0	25600.6
	% Fixture	88.6	0.0	88.6
Total	Lumens	28885.9	0.0	28885.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.3	1.3
10°-20°	940.7	3.3
20°-30°	1464.7	5.1
30°-40°	2281.8	7.9
40°-50°	3830.7	13.3
50°-60°	6085.4	21.1
60°-70°	8117.3	28.1
70°-80°	4901.8	17.0
80°-90°	887.2	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°	28885.9	100.0
0°-180°	28885.9	100.0

Coefficient of Utilization



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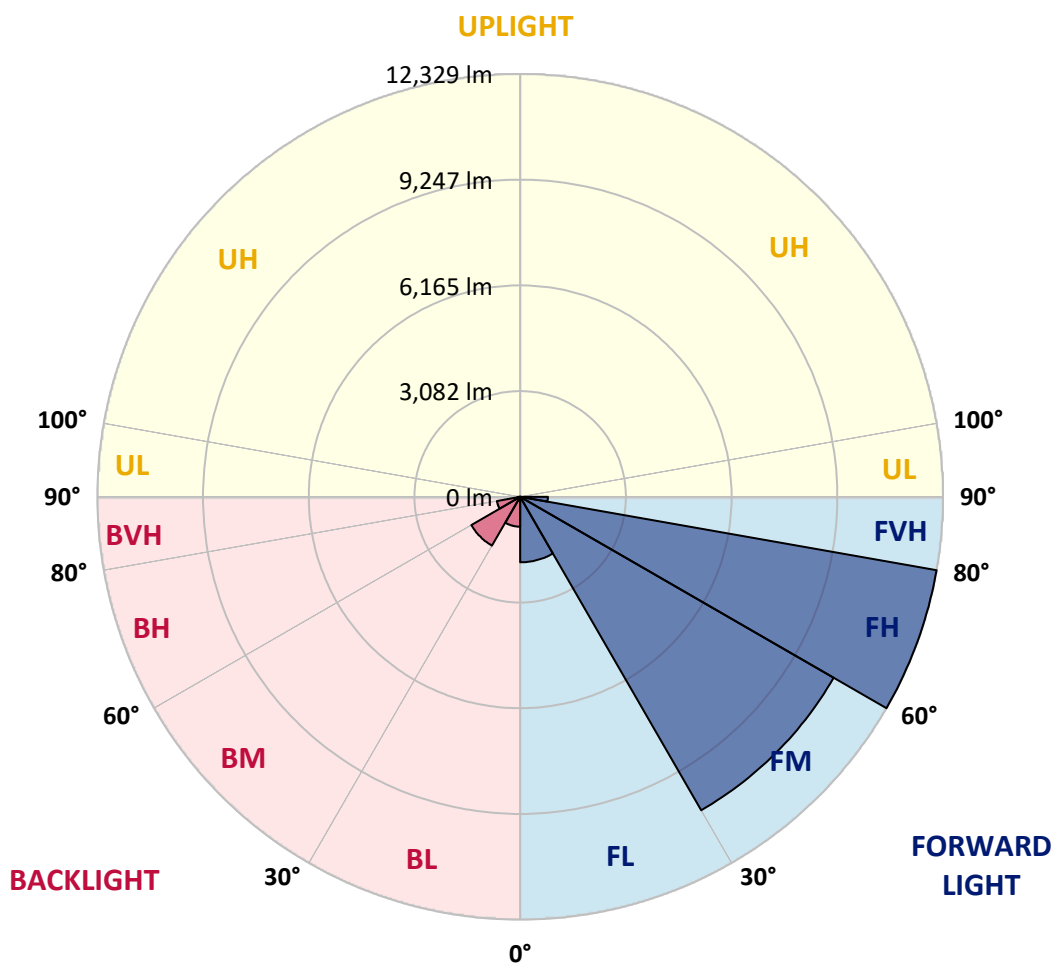
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1910.3	6.6			
FM	(30°-60°)	10553.8	36.5			
FH	(60°-80°)	12329.4	42.7			G5
FVH	(80°-90°)	807.2	2.8			G5
BL	(0°-30°)	871.5	3.0	B2/1000		
BM	(30°-60°)	1644.1	5.7	B2/2500		
BH	(60°-80°)	689.7	2.4	B2/1000		G2/1000
BVH	(80°-90°)	80.0	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4385.3	4385.3	4385.3	4385.3	4385.3	4385.3	4385.3	4385.3	4385.3	4385.3	4385.3
2.5°	4470.6	4469.0	4457.3	4448.5	4441.2	4438.2	4444.1	4422.0	4402.9	4379.4	4354.5
5°	4436.7	4435.3	4416.2	4398.6	4381.0	4375.1	4373.5	4334.0	4310.4	4275.2	4228.3
7.5°	4400.0	4392.7	4367.7	4338.3	4307.5	4292.8	4278.1	4226.7	4200.3	4165.1	4110.7
10°	4361.8	4353.0	4329.5	4300.1	4270.8	4248.8	4223.8	4173.8	4146.0	4119.5	4056.4
12.5°	4322.2	4314.8	4308.9	4295.7	4275.2	4256.0	4237.0	4194.5	4165.1	4134.2	4060.7
15°	4316.3	4313.3	4326.5	4335.4	4323.6	4311.9	4291.3	4254.7	4223.8	4193.0	4097.4
17.5°	4363.3	4361.8	4395.6	4419.1	4413.2	4392.7	4364.8	4323.6	4298.7	4272.2	4153.3
20°	4466.1	4473.4	4514.6	4545.4	4516.0	4486.6	4441.2	4383.9	4370.7	4358.9	4210.6
22.5°	4660.0	4667.3	4696.7	4708.4	4632.0	4589.4	4526.3	4452.9	4444.1	4452.9	4279.5
25°	4962.5	4955.1	4950.7	4906.8	4767.2	4701.1	4620.3	4544.0	4548.4	4588.1	4376.5
27.5°	5363.4	5323.7	5262.2	5129.9	4908.2	4834.7	4736.4	4665.8	4693.8	4770.2	4521.9
30°	5779.0	5735.0	5592.6	5376.6	5093.2	5012.5	4902.3	4823.0	4896.5	5016.8	4715.7
32.5°	6163.9	6158.0	5949.3	5671.8	5348.8	5278.4	5168.1	5078.5	5197.5	5381.0	5006.6
35°	6583.9	6597.1	6347.4	6014.0	5693.9	5620.4	5541.2	5473.6	5632.2	5884.8	5428.1
37.5°	7033.2	7059.7	6764.6	6388.5	6087.5	6056.7	6009.7	5980.3	6225.5	6575.1	6017.0
40°	7634.0	7607.5	7197.8	6811.6	6570.7	6569.2	6554.5	6589.8	6998.0	7476.8	6773.3
42.5°	8277.3	8199.4	7657.4	7265.3	7100.9	7150.8	7180.2	7324.0	7927.7	8572.4	7695.6
45°	8970.4	8795.6	8134.8	7745.6	7689.7	7795.5	7895.4	8208.2	9021.7	9819.2	8706.1
47.5°	9524.1	9355.3	8628.2	8249.3	8371.2	8531.3	8723.7	9218.6	10246.7	11107.3	9703.2
50°	9960.3	9850.2	9126.1	8836.8	9121.7	9368.4	9682.7	10362.7	11521.4	12361.5	10627.0
52.5°	10383.2	10301.0	9628.4	9438.9	10002.9	10343.6	10771.0	11590.4	12828.4	13595.1	11403.9
55°	10765.1	10706.4	10168.8	10189.4	11039.7	11483.2	12020.7	12988.6	14253.1	14695.2	12061.9
57.5°	11195.4	11120.5	10785.6	11130.8	12371.8	12947.4	13646.5	14560.0	15589.5	15673.2	12562.6
60°	11628.7	11564.0	11470.0	12217.6	14063.7	14668.7	15331.0	16083.0	16945.1	16432.5	12533.3
62.5°	12004.7	12012.0	12177.9	13358.7	15720.2	16420.8	17228.5	17971.6	18171.4	16564.7	11606.6
65°	12642.0	12757.9	13252.9	14974.2	18052.5	18989.4	19980.8	19861.8	18510.6	15329.6	9619.5
67.5°	13399.8	13604.0	14607.0	17127.2	20999.9	22243.9	22627.3	20289.1	17152.2	12461.3	6857.0
70°	13323.4	13604.0	15191.5	18732.4	23429.1	24263.3	23100.1	18362.3	13620.1	8140.6	3642.1
72.5°	11831.3	12232.2	14000.5	17996.6	22663.9	22590.6	20054.2	13689.1	8092.2	3269.1	1423.1
75°	9017.3	9422.7	10944.3	14217.8	17912.9	17296.1	14229.6	7562.0	3071.0	1298.2	897.3
77.5°	5187.2	5501.5	6676.4	8719.3	11364.3	10731.3	7920.3	3363.2	1495.1	904.6	700.6
80°	2896.1	3071.0	3784.6	4423.5	5569.1	5104.9	3543.9	2089.9	1116.2	656.4	540.5
82.5°	2289.6	2445.2	3060.7	2790.4	2543.7	2346.9	2035.5	1860.8	891.4	414.2	323.1
85°	2000.3	2148.6	2590.6	2197.1	1737.4	1593.4	1653.6	1831.4	693.1	249.6	276.1
87.5°	1853.4	2051.7	2308.6	1693.3	1352.6	1198.3	1526.0	2007.6	223.2	155.7	111.7
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°	4385.3	4385.3	4385.3	4385.3	4385.3	4385.3	4385.3	4385.3	4385.3	4385.3	4385.3
2.5°	4332.4	4308.9	4270.8	4237.0	4184.1	4156.2	4125.4	4103.3	4085.7	4071.0	4094.6
5°	4198.9	4154.8	4074.0	3987.3	3884.5	3803.8	3736.2	3673.1	3628.9	3599.6	3620.2
7.5°	4072.5	4000.5	3874.3	3717.1	3540.9	3391.1	3267.7	3159.0	3084.2	3035.7	3054.8
10°	4000.5	3910.9	3715.7	3468.9	3209.0	2975.4	2781.6	2614.1	2498.1	2432.0	2442.4
12.5°	3982.9	3866.9	3596.7	3257.4	2902.0	2577.4	2304.3	2072.2	1909.2	1824.1	1827.1
15°	3996.1	3847.8	3485.1	3054.8	2605.4	2195.6	1854.9	1572.9	1383.4	1286.5	1285.1
17.5°	4018.2	3833.2	3367.6	2836.0	2304.3	1828.5	1448.1	1172.0	1004.5	926.7	920.8
20°	4041.7	3809.7	3235.3	2599.5	1991.5	1487.7	1133.8	917.9	812.2	769.5	766.7
22.5°	4075.5	3789.1	3098.8	2349.8	1684.6	1211.5	932.5	787.2	731.4	709.3	706.4
25°	4129.8	3778.8	2953.4	2089.9	1408.5	1013.4	812.2	722.5	690.3	675.6	674.1
27.5°	4220.9	3793.5	2816.8	1837.3	1183.8	879.7	744.6	690.3	666.8	653.6	652.1
30°	4338.3	3839.1	2672.9	1597.9	1008.9	788.7	703.5	668.2	649.1	635.9	635.9
32.5°	4533.7	3915.5	2521.6	1390.8	884.1	725.5	672.6	649.1	632.9	622.7	621.2
35°	4821.5	4059.3	2380.6	1219.0	794.6	680.0	646.2	628.6	616.9	611.0	611.0
37.5°	5240.1	4286.9	2255.7	1095.7	740.2	649.1	621.2	608.0	600.7	600.7	600.7
40°	5802.5	4601.2	2154.5	1013.4	709.3	627.1	602.1	591.8	587.5	588.9	588.9
42.5°	6497.2	5009.5	2087.0	956.1	694.7	613.9	588.9	580.0	575.7	574.2	575.7
45°	7288.8	5473.6	2079.5	913.5	680.0	605.1	580.0	571.3	562.4	556.5	556.5
47.5°	8058.4	5945.1	2139.9	898.7	663.9	594.8	572.7	564.0	550.7	537.5	537.5
50°	8738.3	6346.0	2220.5	904.6	658.0	580.0	561.0	556.5	536.0	521.3	519.8
52.5°	9278.9	6654.3	2286.7	922.2	663.9	569.8	546.3	547.8	525.7	509.5	508.2
55°	9712.0	6857.0	2269.0	939.9	677.1	564.0	533.0	536.0	518.4	502.3	502.3
57.5°	9901.5	6782.2	2073.7	925.2	687.4	565.4	522.8	534.6	519.8	505.3	505.3
60°	9494.7	6116.9	1708.0	860.6	674.1	561.0	518.4	540.5	538.9	524.3	522.8
62.5°	8264.1	4925.9	1324.7	765.2	628.6	538.9	506.6	538.9	555.1	550.7	549.2
65°	6369.5	3508.6	1011.8	662.3	566.9	502.3	475.9	505.3	527.2	533.0	531.6
67.5°	4134.2	2150.1	779.9	565.4	497.9	459.7	436.2	449.4	453.8	453.8	450.9
70°	2032.5	1157.3	621.2	475.9	427.4	414.2	401.0	393.6	386.2	380.3	380.3
72.5°	1003.1	756.3	511.2	402.4	368.6	362.7	359.8	351.0	345.2	337.8	334.9
75°	741.7	615.3	434.8	339.2	317.2	311.4	317.2	309.9	308.4	302.5	299.6
77.5°	609.4	524.3	374.5	290.7	271.7	261.4	270.2	271.7	273.1	264.4	261.4
80°	495.0	443.5	312.8	240.8	223.2	215.9	221.8	233.5	236.4	223.2	217.3
82.5°	356.8	362.7	252.6	188.0	173.2	167.3	179.1	193.8	196.7	177.6	173.2
85°	299.6	302.5	193.8	133.7	119.0	110.2	129.3	143.9	154.2	135.2	130.7
87.5°	124.9	177.6	111.7	75.0	66.1	57.3	69.1	76.4	92.6	85.2	83.7
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)