

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: P193486

Luminaire Tested: **GLEON-AF-08-LED-E1-AFL-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
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-AFL-8030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34957 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 511
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

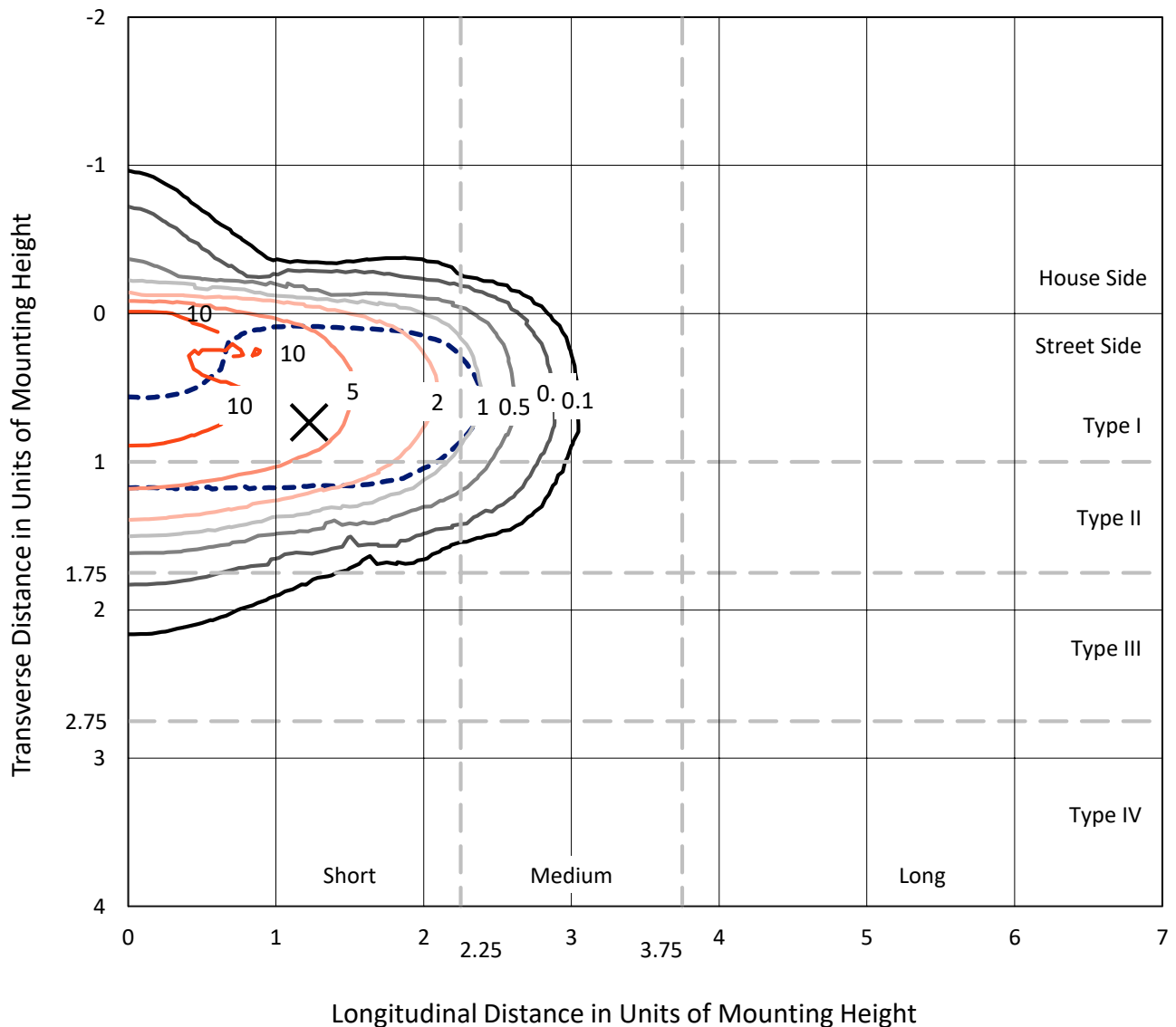


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

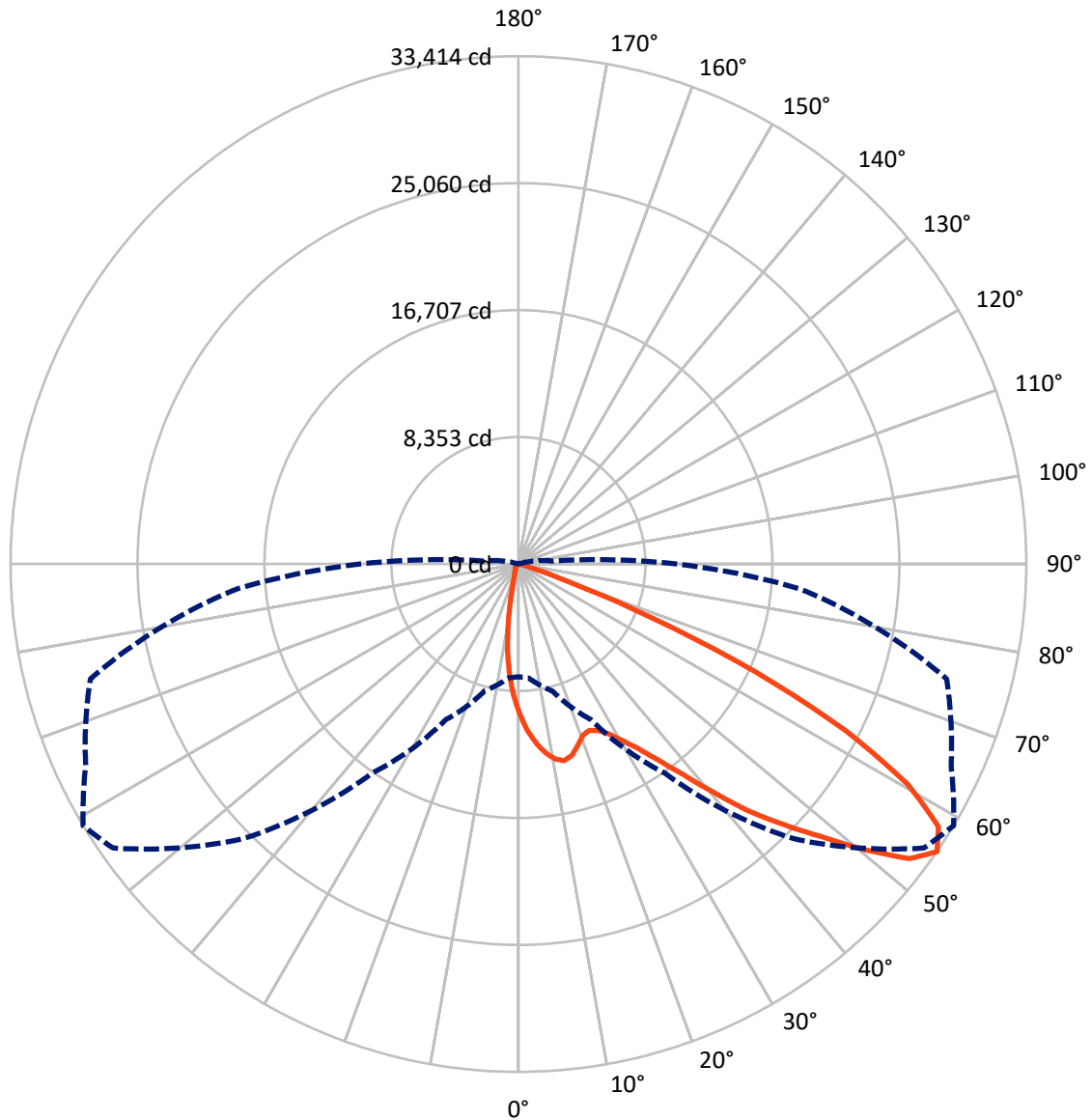


Based on 30 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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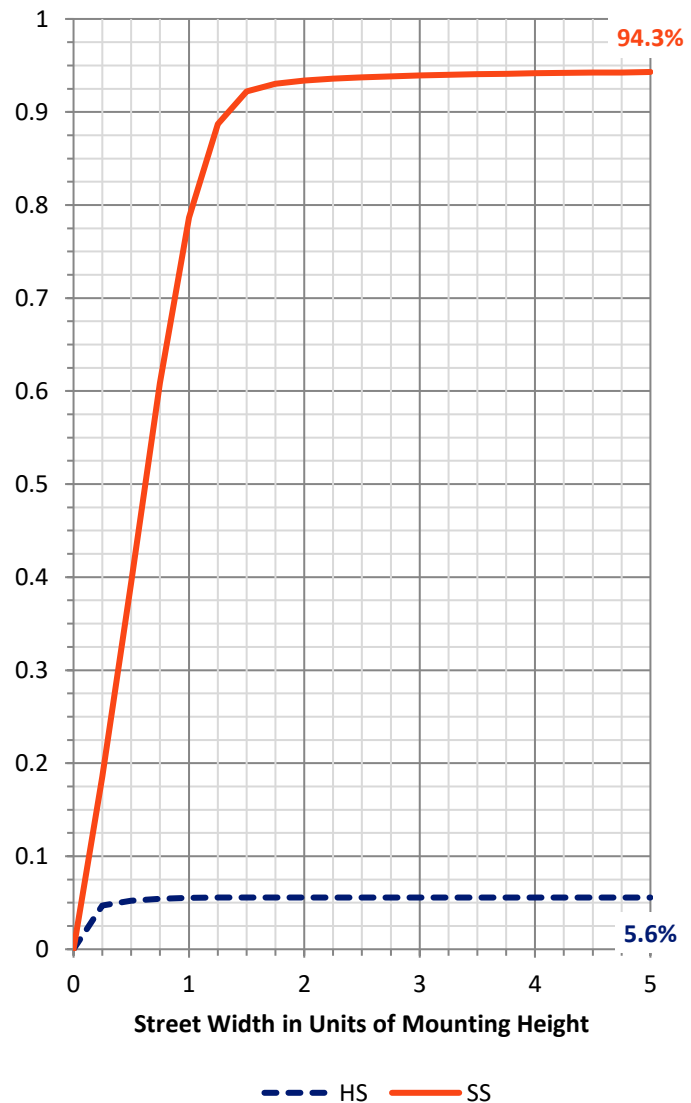
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1952.5	0.0	1952.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	33004.5	0.0	33004.5
	% Fixture	94.4	0.0	94.4
Total	Lumens	34957.0	0.0	34957.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	824.2	2.4
10°-20°	1973.4	5.6
20°-30°	3358.0	9.6
30°-40°	5775.1	16.5
40°-50°	8916.1	25.5
50°-60°	8963.5	25.6
60°-70°	4596.5	13.1
70°-80°	498.1	1.4
80°-90°	52.1	0.1
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°	34957.0	100.0
0°-180°	34957.0	100.0



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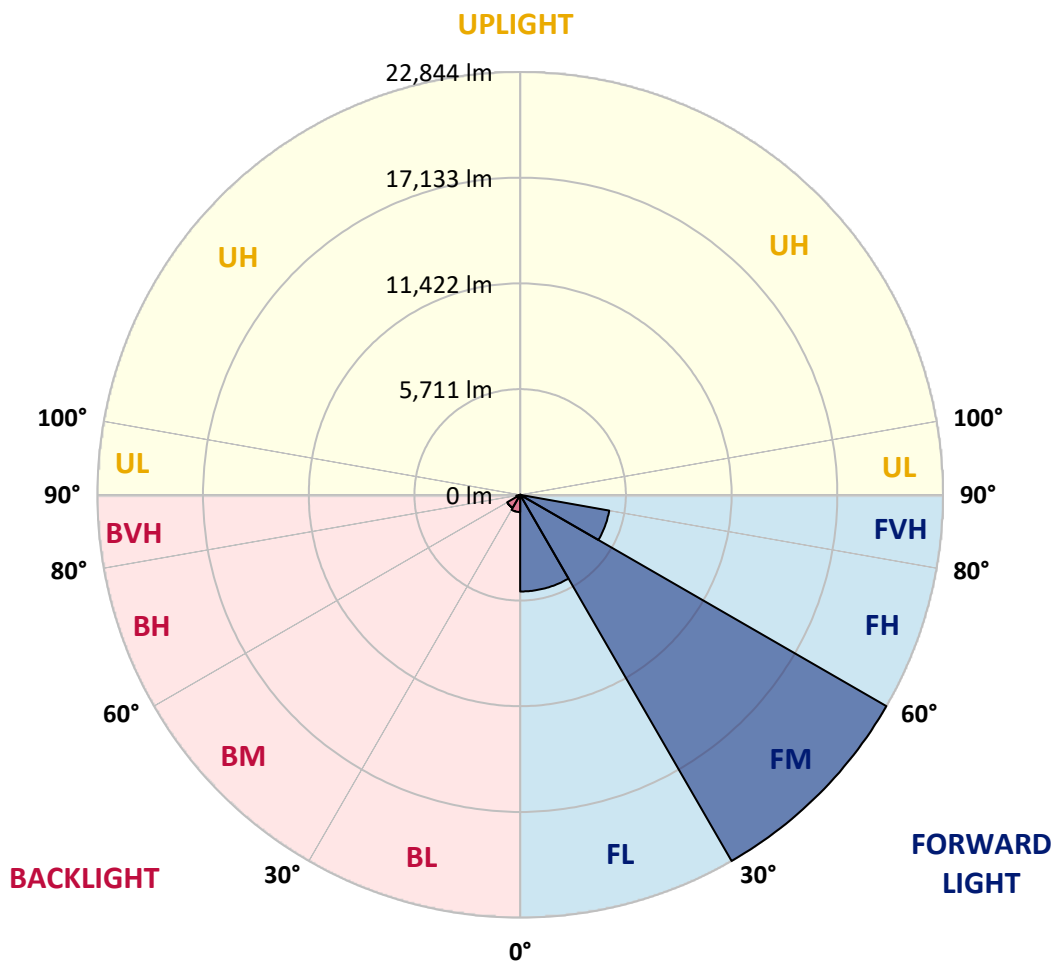
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5223.7	14.9			
FM (30°-60°)	22844.3	65.3			
FH (60°-80°)	4885.5	14.0			G2/5000
FVH (80°-90°)	51.0	0.1			G1/100
BL (0°-30°)	931.9	2.7	B2/1000		
BM (30°-60°)	810.3	2.3	B1/1000		
BH (60°-80°)	209.2	0.6	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	9840.3	9840.3	9840.3	9840.3	9840.3	9840.3	9840.3	9840.3	9840.3	9840.3	9840.3
2.5°	11643.3	11519.5	11482.4	11457.6	11344.2	11201.8	11007.9	10917.1	10731.5	10432.3	10065.1
5°	12709.8	12687.1	12604.6	12559.2	12437.5	12235.4	11925.9	11777.4	11482.4	10979.0	10320.9
7.5°	12243.6	12385.9	12499.4	12689.2	12928.5	12920.3	12660.3	12505.6	12175.5	11511.3	10605.6
10°	10442.7	10558.2	10743.8	11175.0	12053.8	12829.5	13134.8	13023.4	12759.3	12000.2	10880.0
12.5°	10089.9	10077.5	10110.5	10236.4	10696.4	11802.1	13054.3	13279.2	13225.6	12447.8	11139.9
15°	10277.6	10263.2	10259.0	10302.4	10413.8	10880.0	12449.9	13095.6	13510.3	12862.5	11360.7
17.5°	10803.7	10741.8	10708.8	10673.7	10640.7	10756.2	11723.7	12581.9	13553.6	13225.6	11544.3
20°	11705.2	11602.0	11480.3	11282.3	11096.6	11038.8	11418.4	12053.8	13398.9	13502.0	11663.9
22.5°	12837.7	12705.7	12495.3	12134.3	11756.7	11538.1	11569.0	11886.7	13167.8	13803.2	11719.6
25°	14110.6	13941.4	13660.9	13159.6	12604.6	12216.8	12014.6	12126.0	13062.6	14156.0	11783.6
27.5°	15474.2	15286.5	14919.3	14236.4	13607.2	13083.2	12670.6	12656.2	13242.1	14618.1	11886.7
30°	16825.4	16796.5	16317.9	15595.9	14762.5	14125.0	13530.9	13454.6	13743.4	15257.6	12090.9
32.5°	18628.4	18411.8	17825.9	17083.3	16122.0	15356.6	14653.1	14475.7	14512.9	16002.3	12406.6
35°	20901.8	20664.6	19839.4	18814.1	17739.3	16835.7	16058.0	15816.6	15725.9	17221.5	12938.8
37.5°	22370.6	22366.5	21848.7	20804.8	19651.7	18655.3	17809.4	17526.8	17343.2	18694.4	13764.0
40°	22409.8	22506.8	22574.9	22564.5	21743.5	20825.5	20074.6	19725.9	19298.9	20662.5	14830.5
42.5°	21207.1	21456.7	22057.1	23076.2	23563.0	23197.9	22564.5	22222.1	21586.7	22768.8	16130.2
45°	19581.5	19754.8	20804.8	22682.1	24549.1	25549.6	25066.9	24454.2	23616.6	24965.8	17295.8
47.5°	18853.3	18884.2	19563.0	21623.8	24623.4	27476.4	27769.4	26773.0	25460.9	26735.8	18207.6
50°	16676.9	16732.6	17669.2	19789.9	23752.8	28386.2	30484.2	29539.4	27472.3	28099.4	18539.7
52.5°	12569.6	12647.9	13836.2	16775.9	21359.8	27998.4	32427.5	32198.5	29675.5	28765.8	18558.3
55°	7416.3	7519.5	8654.1	11292.6	16800.7	25531.1	32571.9	33413.6	31414.6	29159.8	18529.4
57.5°	3463.7	3535.9	4185.7	5817.5	10448.8	20177.7	30397.6	32580.2	32373.9	29368.1	18733.6
60°	1840.2	1860.8	2017.6	2518.9	4722.1	12794.4	26154.1	29419.7	31499.2	29657.0	18983.3
62.5°	1406.9	1413.1	1404.9	1464.7	1984.6	5679.3	19769.2	24186.0	27977.7	29440.4	18706.8
65°	1219.2	1229.5	1171.8	1157.3	1272.8	2025.8	11744.4	17240.1	21984.9	26517.2	16823.4
67.5°	1093.4	1097.5	1027.3	967.5	988.2	1095.4	4633.4	9438.0	14552.0	19437.1	12194.1
70°	1006.7	1002.6	926.3	831.4	804.6	748.9	1472.9	3459.6	6954.2	9856.8	5671.0
72.5°	891.2	893.3	856.1	732.3	668.4	524.0	682.8	1008.8	2075.3	2686.0	1328.5
75°	790.1	779.8	734.4	656.0	550.8	344.5	338.3	449.7	639.5	635.4	286.7
77.5°	571.4	561.1	575.6	538.4	422.9	222.8	169.2	216.6	259.9	251.7	80.5
80°	418.8	412.6	371.3	447.7	373.4	152.7	105.2	115.5	134.1	113.5	24.8
82.5°	286.7	284.7	262.0	247.6	212.5	92.8	66.0	72.2	86.6	64.0	12.4
85°	45.4	51.6	189.8	150.6	125.8	41.3	45.4	49.5	57.8	35.1	4.1
87.5°	0.0	0.0	88.7	78.4	24.8	16.5	26.8	28.9	28.9	18.6	0.0
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°	9840.3	9840.3	9840.3	9840.3	9840.3	9840.3	9840.3	9840.3	9840.3	9840.3	9840.3
2.5°	9877.4	9671.1	9289.5	8895.4	8530.3	8095.0	7795.9	7571.0	7311.1	7241.0	7393.6
5°	9945.5	9555.6	8734.5	7841.3	7001.7	6071.3	5359.5	4796.4	4286.8	4113.5	4270.3
7.5°	10052.8	9473.1	8134.2	6663.3	5202.8	3750.4	2756.1	2102.1	1685.4	1561.7	1627.7
10°	10160.0	9353.4	7439.0	5268.8	3271.8	1825.7	1188.3	949.0	860.2	841.7	852.0
12.5°	10248.7	9192.5	6591.1	3746.3	1749.4	977.8	777.7	738.5	726.2	726.2	730.3
15°	10302.4	8949.1	5586.5	2382.7	1006.7	738.5	678.7	666.3	666.3	668.4	672.5
17.5°	10296.2	8639.6	4486.9	1442.0	753.0	654.0	618.9	608.6	606.5	610.6	612.7
20°	10219.9	8235.3	3383.2	951.0	656.0	596.2	561.1	542.6	540.5	544.6	548.7
22.5°	10075.4	7736.1	2419.8	732.3	592.1	540.5	497.2	480.7	480.7	484.8	488.9
25°	9900.1	7125.4	1654.5	620.9	534.3	480.7	439.4	425.0	429.1	439.4	441.5
27.5°	9681.4	6438.5	1124.3	532.2	464.2	420.8	389.9	379.6	389.9	404.3	408.5
30°	9493.7	5722.6	802.5	460.0	394.0	363.1	344.5	344.5	359.0	385.8	392.0
32.5°	9349.3	5029.5	618.9	406.4	342.4	315.6	305.3	315.6	338.3	365.1	371.3
35°	9330.7	4458.0	524.0	363.1	305.3	278.5	274.4	292.9	315.6	336.3	340.4
37.5°	9473.1	3929.9	472.4	328.0	272.3	247.6	243.4	266.1	288.8	313.6	319.8
40°	9743.3	3515.3	435.3	295.0	245.5	218.7	210.4	226.9	257.9	290.9	299.1
42.5°	10094.0	3172.8	394.0	262.0	218.7	181.5	171.2	189.8	222.8	257.9	268.2
45°	10428.2	2877.8	348.6	224.9	183.6	140.3	136.2	160.9	177.4	212.5	220.7
47.5°	10611.8	2617.9	309.4	183.6	142.3	113.5	113.5	119.7	136.2	177.4	185.7
50°	10549.9	2409.5	268.2	136.2	99.0	86.6	86.6	84.6	109.3	142.3	148.5
52.5°	10426.1	2289.9	231.1	105.2	68.1	61.9	55.7	61.9	76.3	90.8	92.8
55°	10407.6	2269.2	193.9	84.6	47.4	41.3	30.9	30.9	30.9	28.9	24.8
57.5°	10552.0	2302.3	163.0	68.1	35.1	26.8	16.5	0.0	0.0	0.0	0.0
60°	10700.5	2337.3	140.3	47.4	24.8	14.4	2.1	0.0	0.0	0.0	0.0
62.5°	10453.0	2258.9	117.6	28.9	18.6	6.2	0.0	0.0	0.0	0.0	0.0
65°	9182.2	1922.7	92.8	20.6	12.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6531.3	1287.3	61.9	12.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	2981.0	538.4	39.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	637.5	167.1	26.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	130.0	121.7	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	41.3	191.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	24.8	138.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.1	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)