

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: P190941

Luminaire Tested: **GLEON-AF-03-LED-E1-AFL-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190941
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-03-LED-E1-AFL-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 16693.5 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 191
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

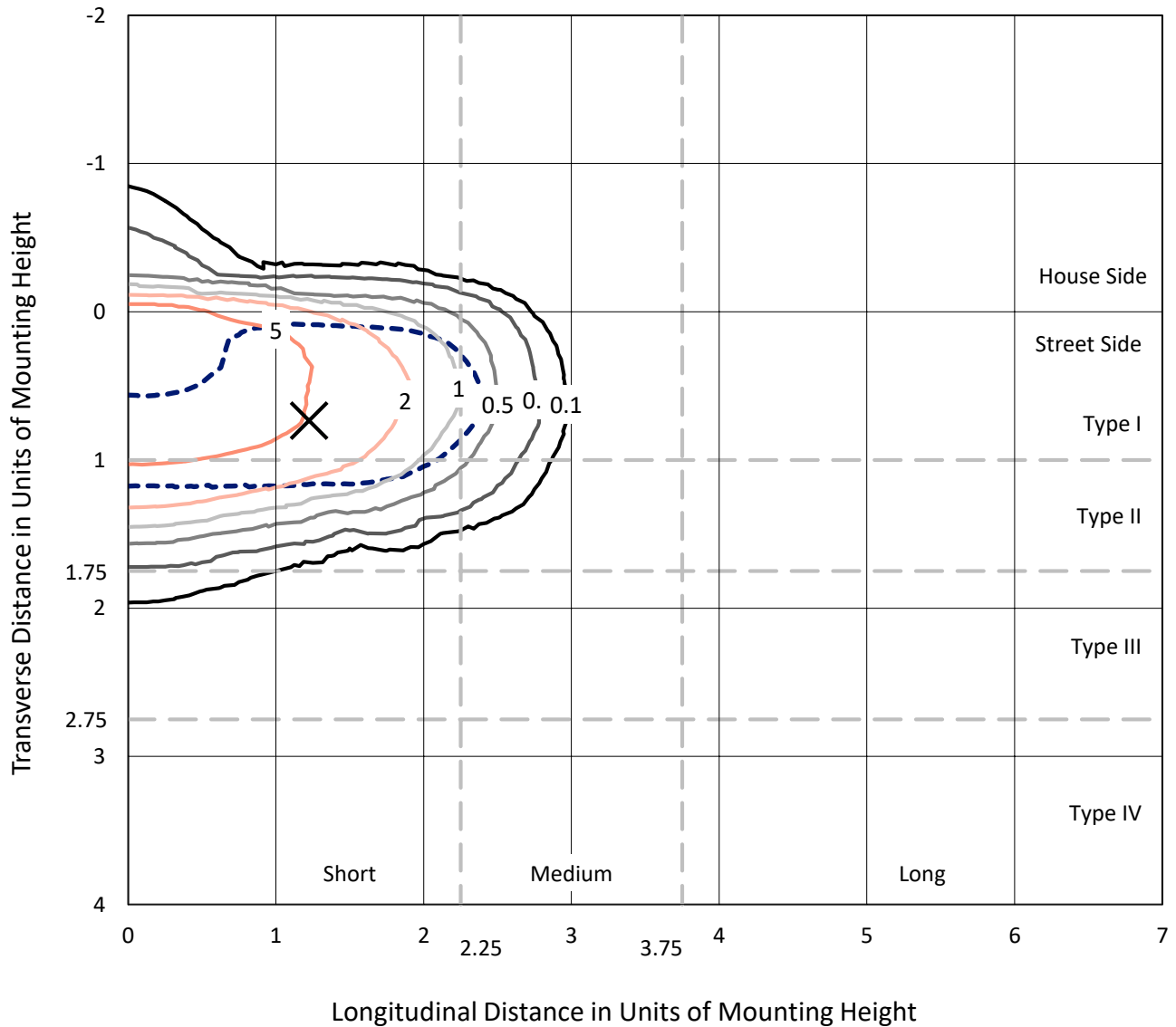


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

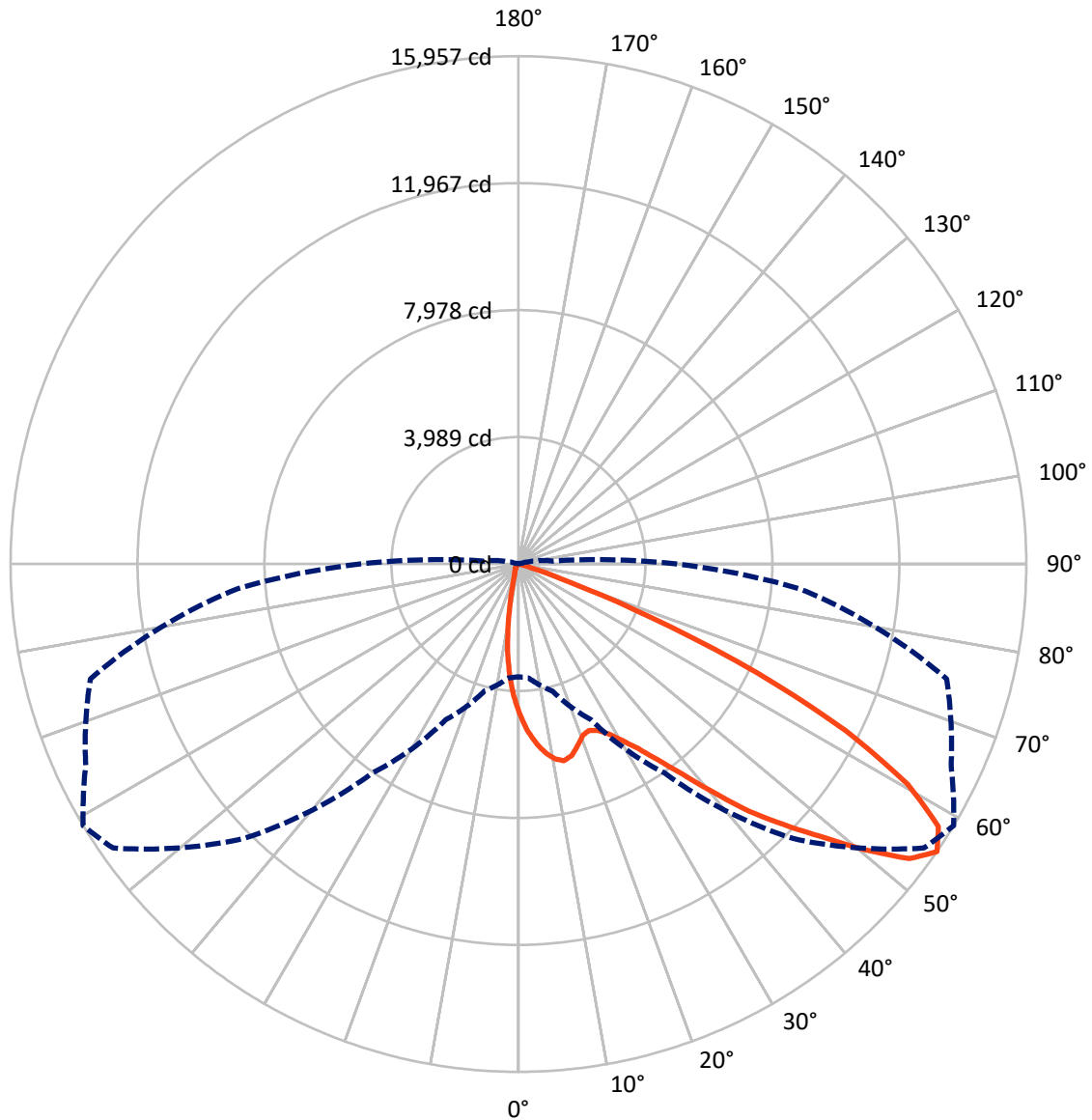


Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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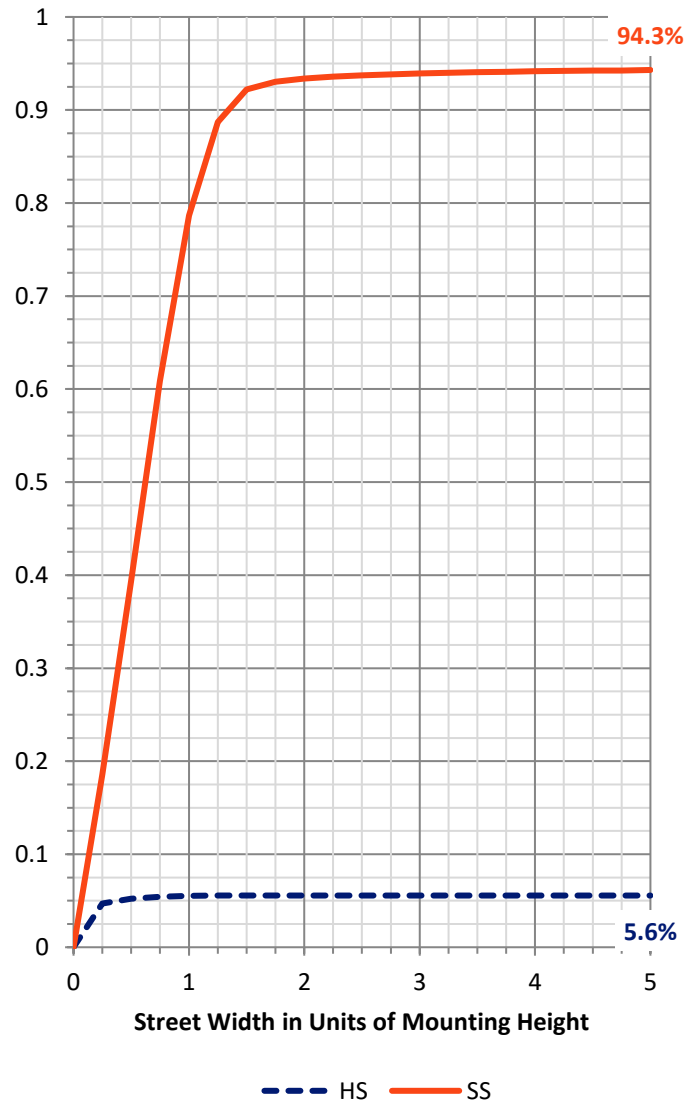
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	932.4	0.0	932.4
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	15761.1	0.0	15761.1
	% Fixture	94.4	0.0	94.4
Total	Lumens	16693.5	0.0	16693.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.6	2.4
10°-20°	942.4	5.6
20°-30°	1603.6	9.6
30°-40°	2757.8	16.5
40°-50°	4257.8	25.5
50°-60°	4280.5	25.6
60°-70°	2195.0	13.1
70°-80°	237.9	1.4
80°-90°	24.9	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°	16693.5	100.0
0°-180°	16693.5	100.0

Coefficient of Utilization



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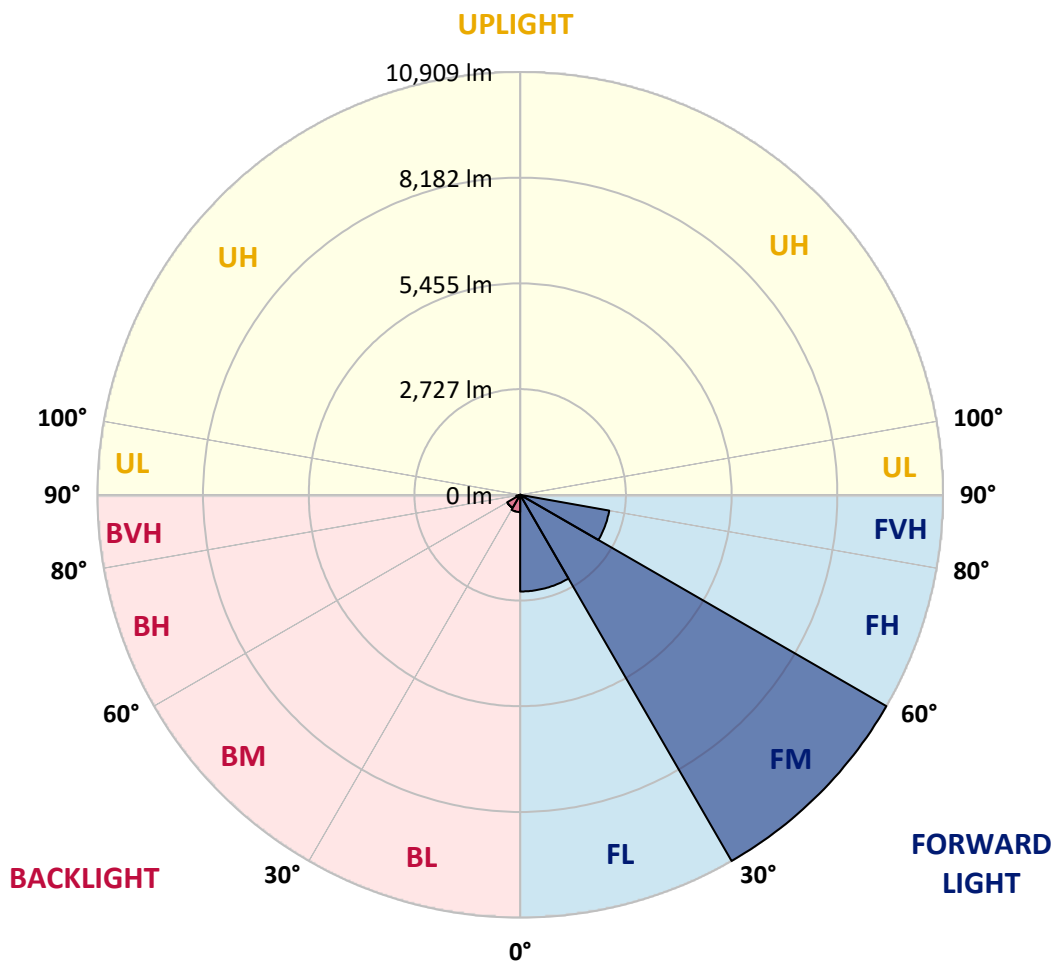
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2494.6	14.9			
FM (30°-60°)	10909.2	65.3			
FH (60°-80°)	2333.0	14.0			G2/5000
FVH (80°-90°)	24.4	0.1			G1/100
BL (0°-30°)	445.0	2.7	B1/500		
BM (30°-60°)	387.0	2.3	B1/1000		
BH (60°-80°)	99.9	0.6	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4699.1	4699.1	4699.1	4699.1	4699.1	4699.1	4699.1	4699.1	4699.1	4699.1	4699.1
2.5°	5560.1	5501.1	5483.3	5471.6	5417.3	5349.4	5256.7	5213.5	5124.8	4981.9	4806.5
5°	6069.5	6058.6	6019.2	5997.6	5939.5	5842.9	5695.2	5624.2	5483.3	5242.9	4928.7
7.5°	5846.9	5914.8	5969.0	6059.7	6173.9	6170.0	6045.8	5972.0	5814.4	5497.1	5064.6
10°	4986.8	5042.0	5130.7	5336.5	5756.2	6126.7	6272.4	6219.2	6093.2	5730.7	5195.7
12.5°	4818.4	4812.5	4828.2	4888.3	5108.0	5636.0	6234.1	6341.4	6315.8	5944.4	5319.9
15°	4908.0	4901.2	4899.1	4919.9	4973.1	5195.7	5945.4	6253.7	6451.8	6142.4	5425.2
17.5°	5159.3	5129.7	5113.9	5097.2	5081.4	5136.5	5598.6	6008.4	6472.4	6315.8	5512.9
20°	5589.7	5540.5	5482.4	5387.8	5299.1	5271.6	5452.8	5756.2	6398.6	6447.9	5570.1
22.5°	6130.5	6067.5	5967.1	5794.6	5614.4	5509.9	5524.8	5676.5	6288.2	6591.7	5596.7
25°	6738.4	6657.7	6523.7	6284.3	6019.2	5834.1	5737.5	5790.7	6238.0	6760.1	5627.2
27.5°	7389.6	7300.0	7124.6	6798.5	6498.1	6247.9	6050.8	6043.9	6323.7	6980.8	5676.5
30°	8034.9	8021.1	7792.5	7447.7	7049.8	6745.3	6461.6	6425.2	6563.0	7286.2	5773.9
32.5°	8895.9	8792.5	8512.7	8158.0	7698.9	7333.4	6997.5	6912.8	6930.5	7641.9	5924.7
35°	9981.5	9868.3	9474.2	8984.6	8471.4	8039.8	7668.4	7553.2	7509.8	8224.0	6178.8
37.5°	10683.0	10681.0	10433.7	9935.2	9384.6	8908.7	8504.8	8369.9	8282.1	8927.4	6573.0
40°	10701.7	10748.0	10780.5	10775.6	10383.5	9945.1	9586.5	9420.0	9216.1	9867.3	7082.3
42.5°	10127.3	10246.6	10533.2	11019.9	11252.4	11078.0	10775.6	10612.1	10308.6	10873.1	7702.9
45°	9351.1	9433.8	9935.2	10831.7	11723.3	12201.1	11970.6	11678.0	11278.0	11922.3	8259.5
47.5°	9003.3	9018.0	9342.2	10326.4	11758.7	13121.2	13261.1	12785.2	12158.7	12767.6	8695.0
50°	7964.0	7990.6	8437.8	9450.5	11343.0	13555.6	14557.6	14106.4	13119.2	13418.8	8853.5
52.5°	6002.6	6039.9	6607.4	8011.2	10200.3	13370.5	15485.6	15376.3	14171.3	13736.9	8862.4
55°	3541.7	3590.9	4132.7	5392.7	8023.1	12192.2	15554.6	15956.5	15001.9	13925.1	8848.6
57.5°	1654.1	1688.6	1998.8	2778.1	4989.7	9635.8	14516.2	15558.5	15460.0	14024.7	8946.1
60°	878.7	888.6	963.5	1202.9	2255.0	6109.9	12489.7	14049.2	15042.3	14162.5	9065.4
62.5°	671.9	674.8	670.9	699.5	947.8	2712.1	9440.7	11549.9	13360.7	14059.1	8933.3
65°	582.3	587.2	559.6	552.7	607.8	967.4	5608.4	8232.9	10498.7	12663.1	8033.9
67.5°	522.1	524.1	490.6	462.1	471.9	523.1	2212.6	4507.0	6949.2	9282.1	5823.2
70°	480.8	478.7	442.3	397.0	384.2	357.6	703.4	1652.1	3320.9	4707.0	2708.2
72.5°	425.5	426.6	408.9	349.7	319.2	250.2	326.1	481.7	991.0	1282.7	634.4
75°	377.3	372.4	350.7	313.2	263.0	164.5	161.5	214.7	305.4	303.4	137.0
77.5°	272.9	267.9	274.9	257.2	201.9	106.4	80.8	103.4	124.1	120.2	38.5
80°	200.0	197.0	177.3	213.8	178.3	72.9	50.2	55.1	64.0	54.2	11.9
82.5°	137.0	136.0	125.1	118.3	101.5	44.3	31.5	34.5	41.3	30.6	5.9
85°	21.7	24.7	90.6	71.9	60.0	19.7	21.7	23.6	27.6	16.8	1.9
87.5°	0.0	0.0	42.4	37.4	11.9	7.9	12.8	13.8	13.8	8.9	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°	4699.1	4699.1	4699.1	4699.1	4699.1	4699.1	4699.1	4699.1	4699.1	4699.1	4699.1
2.5°	4716.9	4618.4	4436.1	4248.0	4073.6	3865.7	3722.9	3615.5	3491.3	3457.9	3530.8
5°	4749.5	4563.2	4171.1	3744.5	3343.6	2899.3	2559.4	2290.5	2047.1	1964.4	2039.3
7.5°	4800.6	4523.8	3884.5	3182.0	2484.5	1791.0	1316.1	1003.8	804.9	745.7	777.2
10°	4851.9	4466.7	3552.5	2516.0	1562.5	871.9	567.4	453.2	410.8	401.9	406.8
12.5°	4894.2	4389.8	3147.5	1789.0	835.4	467.0	371.4	352.7	346.8	346.8	348.7
15°	4919.9	4273.6	2667.8	1137.8	480.8	352.7	324.1	318.2	318.2	319.2	321.2
17.5°	4916.9	4125.8	2142.7	688.7	359.6	312.3	295.5	290.6	289.6	291.6	292.6
20°	4880.4	3932.7	1615.6	454.2	313.2	284.7	267.9	259.1	258.1	260.0	262.1
22.5°	4811.4	3694.3	1155.6	349.7	282.7	258.1	237.4	229.6	229.6	231.5	233.4
25°	4727.8	3402.7	790.1	296.6	255.1	229.6	209.8	203.0	204.9	209.8	210.8
27.5°	4623.3	3074.7	536.9	254.2	221.7	201.0	186.2	181.3	186.2	193.1	195.1
30°	4533.6	2732.8	383.2	219.7	188.1	173.4	164.5	164.5	171.4	184.2	187.2
32.5°	4464.7	2401.8	295.5	194.1	163.6	150.7	145.8	150.7	161.5	174.4	177.3
35°	4455.9	2128.9	250.2	173.4	145.8	133.0	131.0	139.9	150.7	160.6	162.5
37.5°	4523.8	1876.7	225.6	156.6	130.0	118.3	116.2	127.1	137.9	149.8	152.7
40°	4652.9	1678.7	207.9	140.9	117.2	104.4	100.5	108.3	123.2	138.9	142.8
42.5°	4820.3	1515.2	188.1	125.1	104.4	86.6	81.7	90.6	106.4	123.2	128.1
45°	4979.9	1374.3	166.5	107.4	87.7	67.0	65.1	76.8	84.7	101.5	105.4
47.5°	5067.6	1250.1	147.8	87.7	68.0	54.2	54.2	57.2	65.1	84.7	88.7
50°	5038.0	1150.6	128.1	65.1	47.3	41.3	41.3	40.4	52.2	68.0	70.9
52.5°	4978.9	1093.5	110.4	50.2	32.5	29.6	26.6	29.6	36.4	43.4	44.3
55°	4970.1	1083.7	92.6	40.4	22.7	19.7	14.7	14.7	14.7	13.8	11.9
57.5°	5039.1	1099.5	77.8	32.5	16.8	12.8	7.9	0.0	0.0	0.0	0.0
60°	5109.9	1116.1	67.0	22.7	11.9	6.9	1.0	0.0	0.0	0.0	0.0
62.5°	4991.8	1078.7	56.2	13.8	8.9	3.0	0.0	0.0	0.0	0.0	0.0
65°	4384.9	918.2	44.3	9.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3119.0	614.7	29.6	5.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1423.5	257.2	18.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	304.4	79.8	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	62.1	58.1	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	19.7	91.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	11.9	66.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.9	9.8	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)