

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: P190913

Luminaire Tested: **GLEON-AF-05-LED-E1-AFL-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190913
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-05-LED-E1-AFL-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA 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: 16414.3 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 162
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

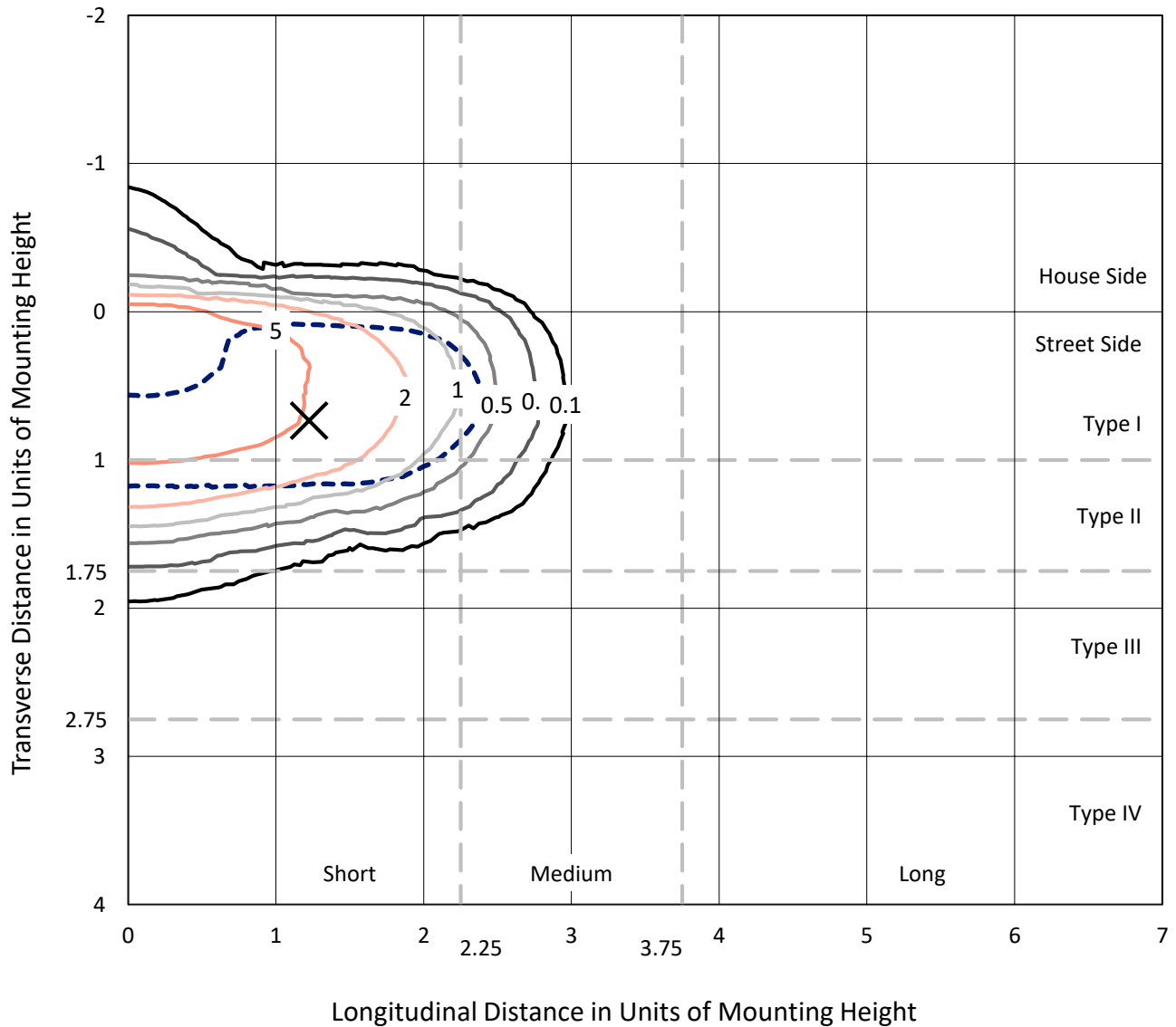


REPORT NUMBER: P190913

CATALOG NUMBER: GLEON-AF-05-LED-E1-AFL-600-HSS

Iso-Footcandle Lines of Horizontal Illumination

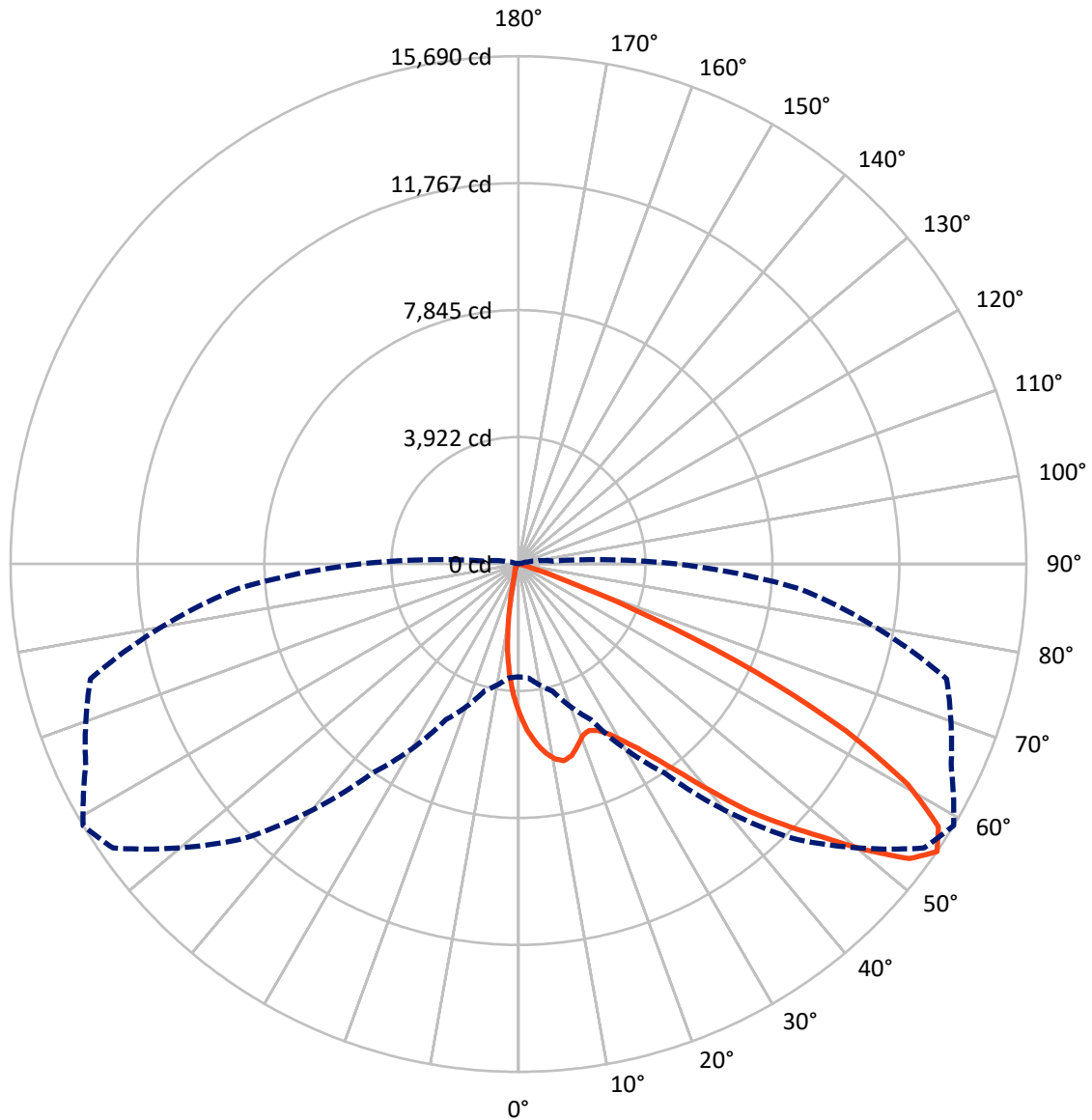
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P190913
CATALOG NUMBER: GLEON-AF-05-LED-E1-AFL-600-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P190913

CATALOG NUMBER: GLEON-AF-05-LED-E1-AFL-600-HSS

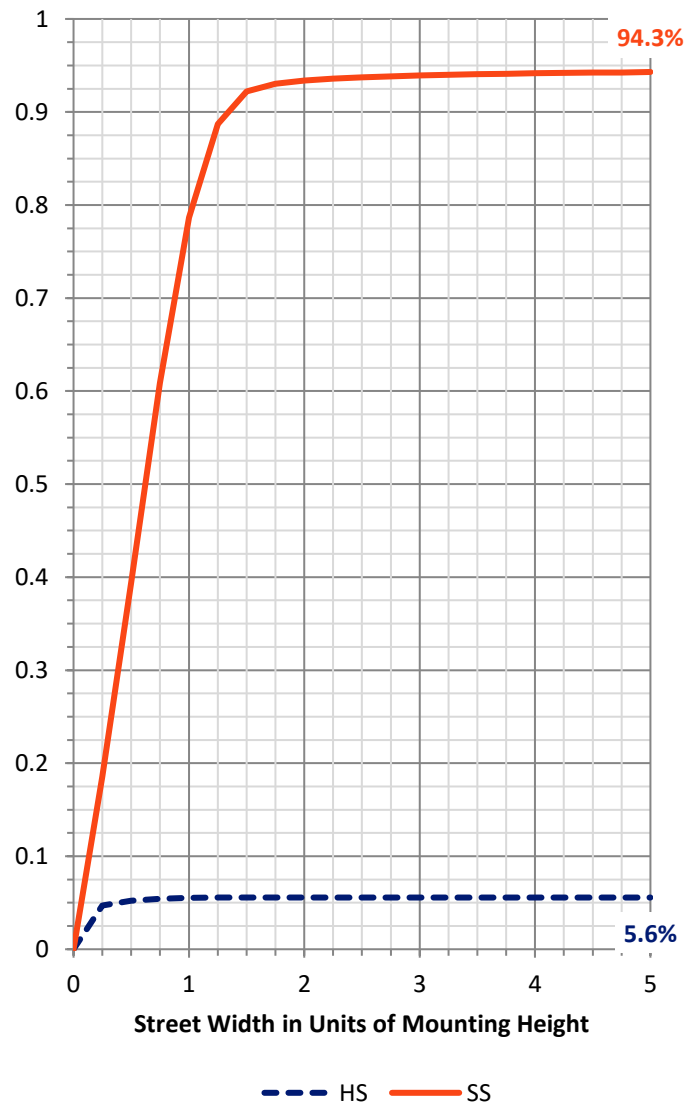
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	916.8	0.0	916.8
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	15497.4	0.0	15497.4
	% Fixture	94.4	0.0	94.4
Total	Lumens	16414.3	0.0	16414.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.0	2.4
10°-20°	926.6	5.6
20°-30°	1576.8	9.6
30°-40°	2711.7	16.5
40°-50°	4186.6	25.5
50°-60°	4208.9	25.6
60°-70°	2158.3	13.1
70°-80°	233.9	1.4
80°-90°	24.5	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°	16414.3	100.0
0°-180°	16414.3	100.0



REPORT NUMBER: P190913

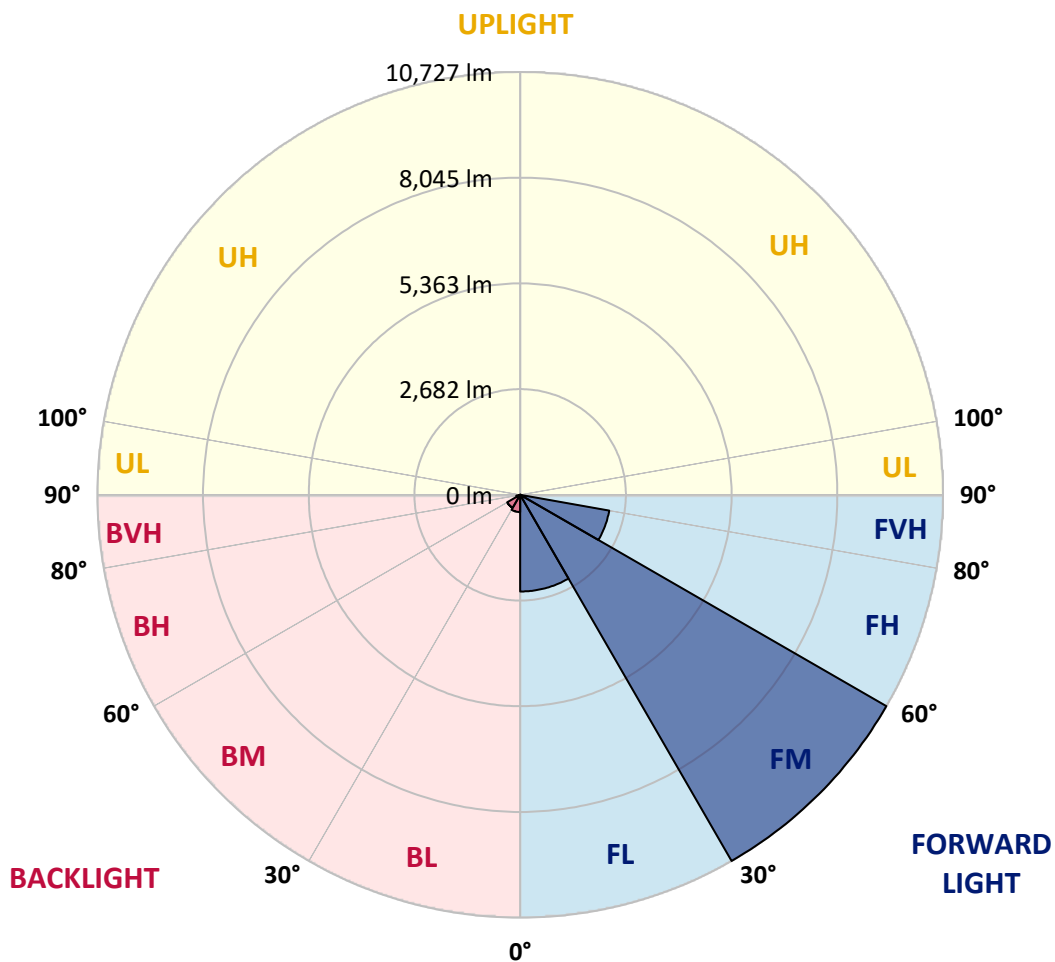
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2452.8	14.9			
FM	(30°-60°)	10726.7	65.3			
FH	(60°-80°)	2294.0	14.0			G2/5000
FVH	(80°-90°)	23.9	0.1			G1/100
BL	(0°-30°)	437.6	2.7	B1/500		
BM	(30°-60°)	380.5	2.3	B1/1000		
BH	(60°-80°)	98.2	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





REPORT NUMBER: P190913

CATALOG NUMBER: GLEON-AF-05-LED-E1-AFL-600-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4620.6	4620.6	4620.6	4620.6	4620.6	4620.6	4620.6	4620.6	4620.6	4620.6	4620.6
2.5°	5467.2	5409.1	5391.7	5380.0	5326.7	5259.9	5168.9	5126.2	5039.1	4898.6	4726.1
5°	5968.0	5957.4	5918.6	5897.3	5840.1	5745.2	5599.8	5530.2	5391.7	5155.3	4846.2
7.5°	5749.1	5815.9	5869.2	5958.3	6070.7	6066.8	5944.8	5872.0	5717.1	5405.2	4979.9
10°	4903.4	4957.6	5044.8	5247.3	5660.0	6024.2	6167.5	6115.2	5991.2	5634.7	5108.7
12.5°	4737.8	4732.0	4747.4	4806.5	5022.6	5541.7	6129.7	6235.3	6210.1	5844.9	5230.9
15°	4825.9	4819.1	4817.2	4837.5	4889.8	5108.7	5846.0	6149.2	6343.8	6039.7	5334.5
17.5°	5072.9	5043.9	5028.4	5011.9	4996.4	5050.6	5504.9	5908.0	6364.2	6210.1	5420.7
20°	5496.2	5447.8	5390.6	5297.7	5210.5	5183.4	5361.6	5660.0	6291.6	6339.9	5476.9
22.5°	6028.0	5966.1	5867.2	5697.7	5520.5	5417.8	5432.3	5581.5	6183.0	6481.4	5503.1
25°	6625.8	6546.3	6414.5	6179.1	5918.6	5736.5	5641.6	5693.8	6133.6	6647.0	5533.0
27.5°	7266.0	7177.8	7005.5	6684.8	6389.4	6143.3	5949.6	5942.8	6217.9	6864.0	5581.5
30°	7900.5	7887.0	7662.2	7323.1	6931.8	6632.5	6353.5	6317.6	6453.3	7164.2	5677.4
32.5°	8747.0	8645.4	8370.3	8021.6	7570.1	7210.8	6880.5	6797.2	6814.6	7514.0	5825.6
35°	9814.6	9703.2	9315.7	8834.3	8329.6	7905.4	7540.2	7426.8	7384.2	8086.4	6075.5
37.5°	10504.3	10502.3	10259.2	9769.1	9227.5	8759.7	8362.5	8229.8	8143.6	8778.0	6463.0
40°	10522.7	10568.2	10600.1	10595.3	10209.8	9778.7	9426.1	9262.4	9061.9	9702.2	6963.7
42.5°	9957.9	10075.1	10357.1	10835.5	11064.1	10892.7	10595.3	10434.5	10136.2	10691.2	7574.0
45°	9194.6	9276.0	9769.1	10650.6	11527.2	11997.0	11770.3	11482.6	11089.3	11722.8	8121.3
47.5°	8852.7	8867.2	9185.9	10153.6	11562.0	12901.8	13039.2	12571.5	11955.3	12554.0	8549.5
50°	7830.7	7856.9	8296.6	9292.5	11153.2	13328.9	14314.0	13870.4	12899.8	13194.2	8705.4
52.5°	5902.1	5938.9	6496.9	7877.2	10029.6	13146.8	15226.5	15119.0	13934.3	13507.1	8714.1
55°	3482.3	3530.8	4063.6	5302.5	7888.9	11988.3	15294.3	15689.5	14751.0	13692.2	8700.6
57.5°	1626.4	1660.4	1965.4	2731.7	4906.3	9474.6	14273.3	15298.2	15201.4	13790.0	8796.5
60°	864.1	873.7	947.4	1182.7	2217.2	6007.7	12280.8	13814.2	14790.6	13925.6	8913.7
62.5°	660.6	663.6	659.7	687.7	931.9	2666.7	9282.8	11356.7	13137.1	13823.9	8783.9
65°	572.4	577.4	550.2	543.4	597.7	951.2	5514.6	8095.2	10323.1	12451.3	7899.5
67.5°	513.4	515.4	482.4	454.3	464.0	514.3	2175.6	4431.6	6833.0	9126.8	5725.8
70°	472.7	470.8	435.0	390.4	377.8	351.6	691.6	1624.4	3265.4	4628.3	2662.8
72.5°	418.5	419.4	402.0	343.9	313.8	246.0	320.6	473.7	974.5	1261.2	623.8
75°	371.0	366.1	344.8	308.0	258.6	161.7	158.9	211.1	300.3	298.4	134.6
77.5°	268.3	263.5	270.3	252.9	198.6	104.6	79.4	101.7	122.0	118.2	37.7
80°	196.6	193.7	174.3	210.2	175.3	71.7	49.4	54.2	63.0	53.3	11.7
82.5°	134.6	133.7	123.1	116.2	99.7	43.6	31.0	33.9	40.7	30.1	5.8
85°	21.3	24.2	89.1	70.7	59.1	19.3	21.3	23.2	27.1	16.5	1.9
87.5°	0.0	0.0	41.6	36.8	11.7	7.8	12.6	13.6	13.6	8.7	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



REPORT NUMBER: P190913

CATALOG NUMBER: GLEON-AF-05-LED-E1-AFL-600-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4620.6	4620.6	4620.6	4620.6	4620.6	4620.6	4620.6	4620.6	4620.6	4620.6	4620.6
2.5°	4638.0	4541.1	4362.0	4176.9	4005.5	3801.1	3660.6	3555.1	3432.9	3400.1	3471.7
5°	4670.0	4486.9	4101.3	3681.9	3287.7	2850.8	2516.6	2252.1	2012.9	1931.5	2005.2
7.5°	4720.3	4448.1	3819.5	3128.8	2443.0	1761.0	1294.1	987.0	791.4	733.3	764.2
10°	4770.7	4391.9	3493.1	2474.0	1536.3	857.2	557.9	445.6	404.0	395.3	400.1
12.5°	4812.4	4316.4	3094.9	1759.1	821.4	459.1	365.2	346.8	340.9	340.9	342.9
15°	4837.5	4202.1	2623.2	1118.8	472.7	346.8	318.6	312.9	312.9	313.8	315.8
17.5°	4834.7	4056.8	2106.9	677.1	353.5	307.1	290.6	285.7	284.8	286.7	287.7
20°	4798.8	3867.0	1588.6	446.5	308.0	280.0	263.5	254.7	253.8	255.7	257.7
22.5°	4730.9	3632.5	1136.3	343.9	278.0	253.8	233.4	225.7	225.7	227.6	229.6
25°	4648.7	3345.8	776.8	291.5	250.9	225.7	206.3	199.6	201.5	206.3	207.2
27.5°	4546.0	3023.2	527.9	249.9	218.0	197.6	183.1	178.2	183.1	189.9	191.8
30°	4457.8	2687.1	376.9	216.0	185.1	170.5	161.7	161.7	168.6	181.2	184.0
32.5°	4390.0	2361.6	290.6	190.8	160.8	148.2	143.3	148.2	158.9	171.4	174.3
35°	4381.3	2093.3	246.0	170.5	143.3	130.7	128.8	137.6	148.2	157.9	159.8
37.5°	4448.1	1845.3	221.8	154.1	127.9	116.2	114.3	125.0	135.6	147.2	150.2
40°	4575.0	1650.6	204.4	138.5	115.3	102.7	98.8	106.6	121.1	136.6	140.5
42.5°	4739.7	1489.8	185.1	123.1	102.7	85.2	80.4	89.1	104.6	121.1	125.9
45°	4896.7	1351.3	163.7	105.6	86.2	65.9	63.9	75.6	83.3	99.7	103.6
47.5°	4982.8	1229.3	145.3	86.2	66.8	53.3	53.3	56.2	63.9	83.3	87.2
50°	4953.7	1131.4	125.9	63.9	46.5	40.7	40.7	39.7	51.4	66.8	69.8
52.5°	4895.6	1075.2	108.5	49.4	31.9	29.1	26.2	29.1	35.8	42.7	43.6
55°	4886.9	1065.5	91.0	39.7	22.3	19.3	14.5	14.5	14.5	13.6	11.7
57.5°	4954.8	1081.1	76.5	31.9	16.5	12.6	7.8	0.0	0.0	0.0	0.0
60°	5024.5	1097.5	65.9	22.3	11.7	6.8	0.9	0.0	0.0	0.0	0.0
62.5°	4908.2	1060.7	55.2	13.6	8.7	2.9	0.0	0.0	0.0	0.0	0.0
65°	4311.5	902.8	43.6	9.7	5.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3066.8	604.5	29.1	5.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	1399.7	252.9	18.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	299.3	78.5	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	61.1	57.2	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	19.3	90.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	11.7	64.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.9	9.7	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)