

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: P269300

Luminaire Tested: **GLEON-AF-05-LED-E1-AFL-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269300
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-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA 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: 21158.8 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 279
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

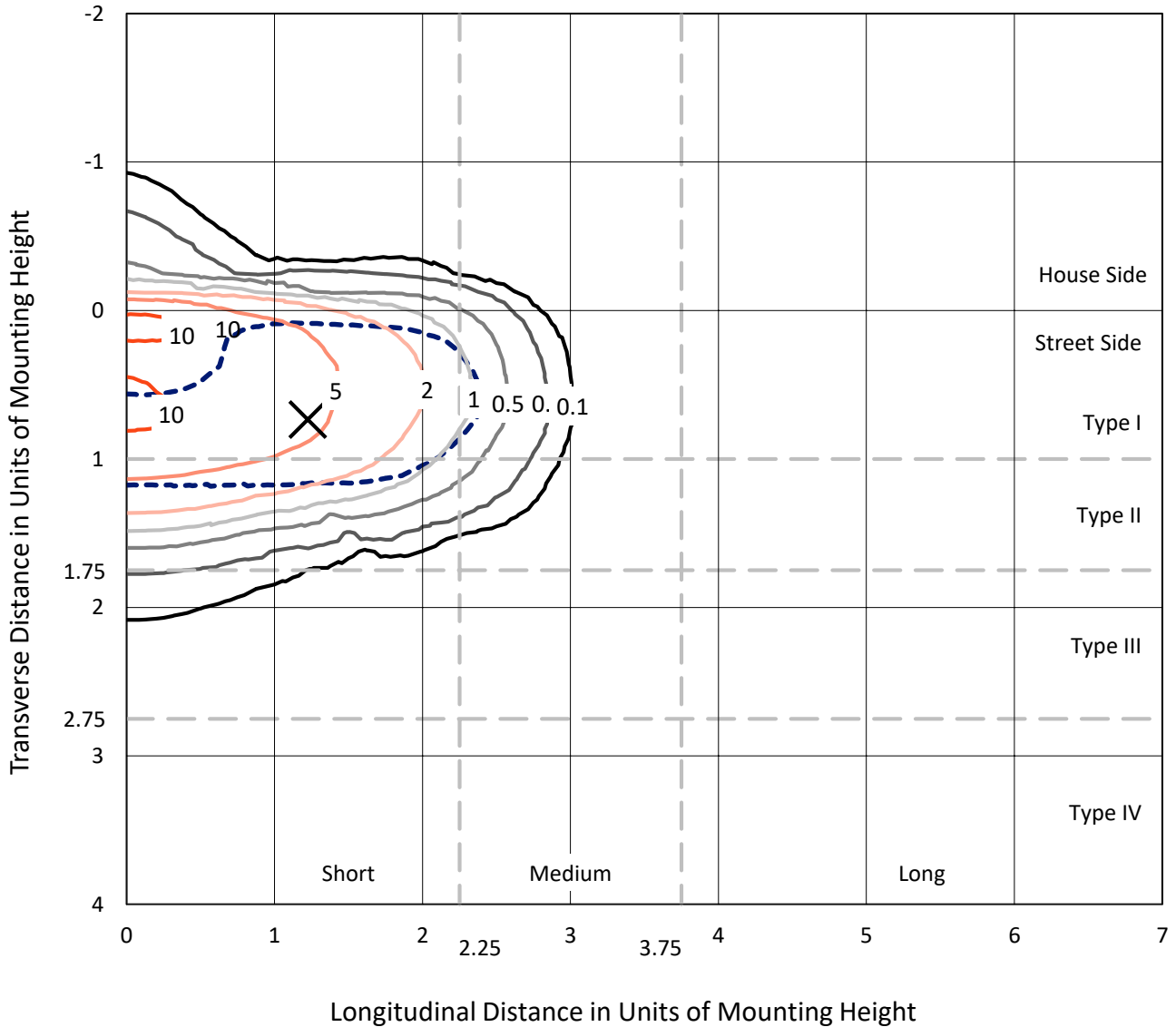


REPORT NUMBER: P269300

CATALOG NUMBER: GLEON-AF-05-LED-E1-AFL-7027-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

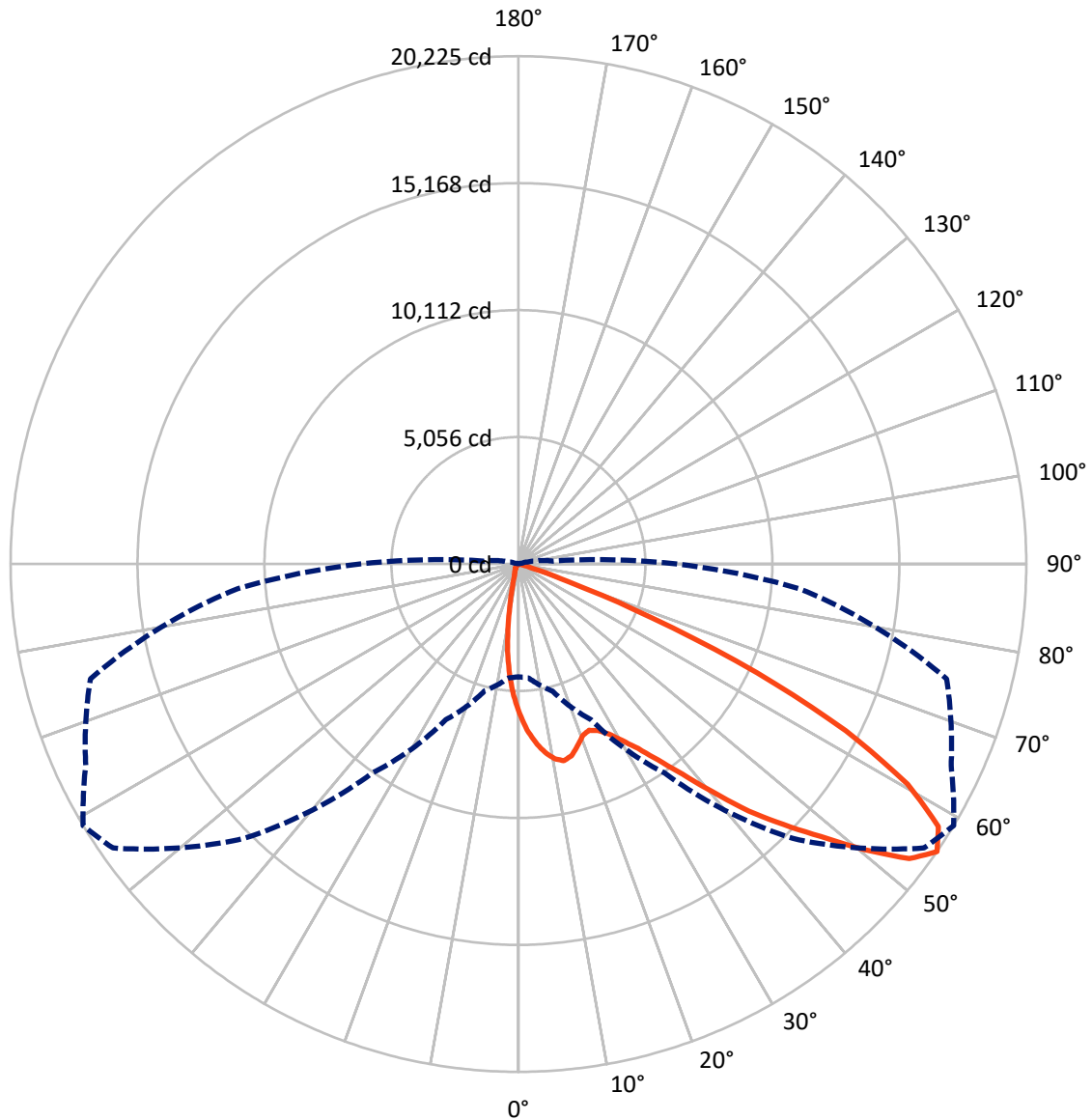


Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P269300

CATALOG NUMBER: GLEON-AF-05-LED-E1-AFL-7027-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269300

CATALOG NUMBER: GLEON-AF-05-LED-E1-AFL-7027-HSS

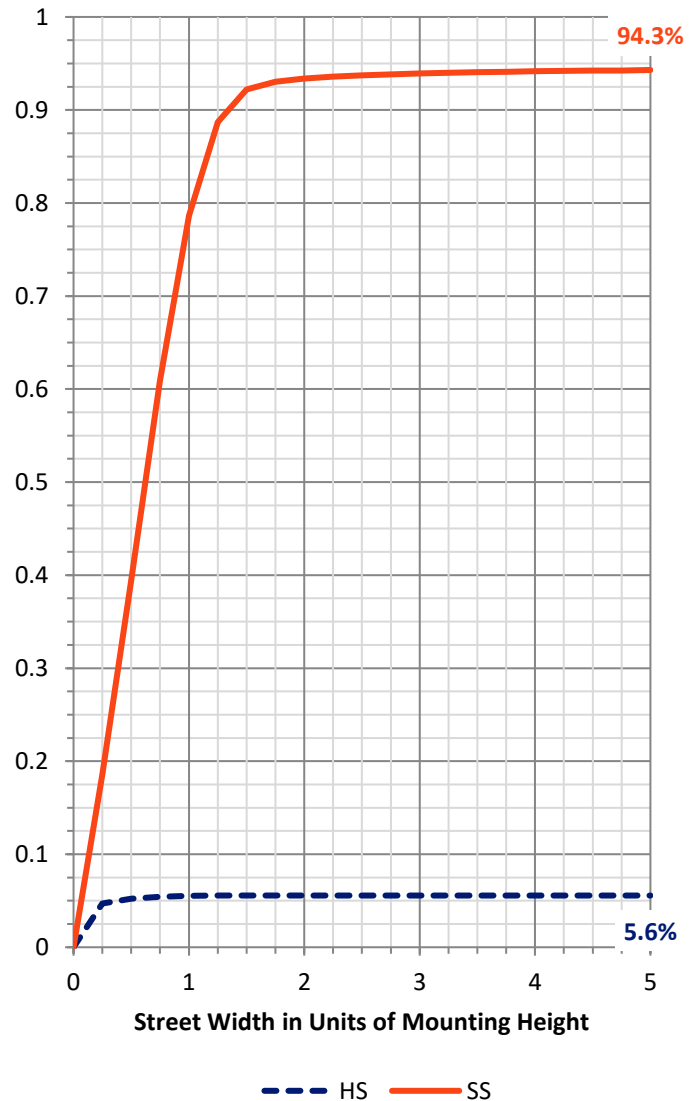
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1181.8	0.0	1181.8
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	19976.9	0.0	19976.9
	% Fixture	94.4	0.0	94.4
Total	Lumens	21158.8	0.0	21158.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.9	2.4
10°-20°	1194.5	5.6
20°-30°	2032.5	9.6
30°-40°	3495.5	16.5
40°-50°	5396.7	25.5
50°-60°	5425.4	25.6
60°-70°	2782.2	13.1
70°-80°	301.5	1.4
80°-90°	31.5	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°	21158.8	100.0
0°-180°	21158.8	100.0

Coefficient of Utilization



REPORT NUMBER: P269300

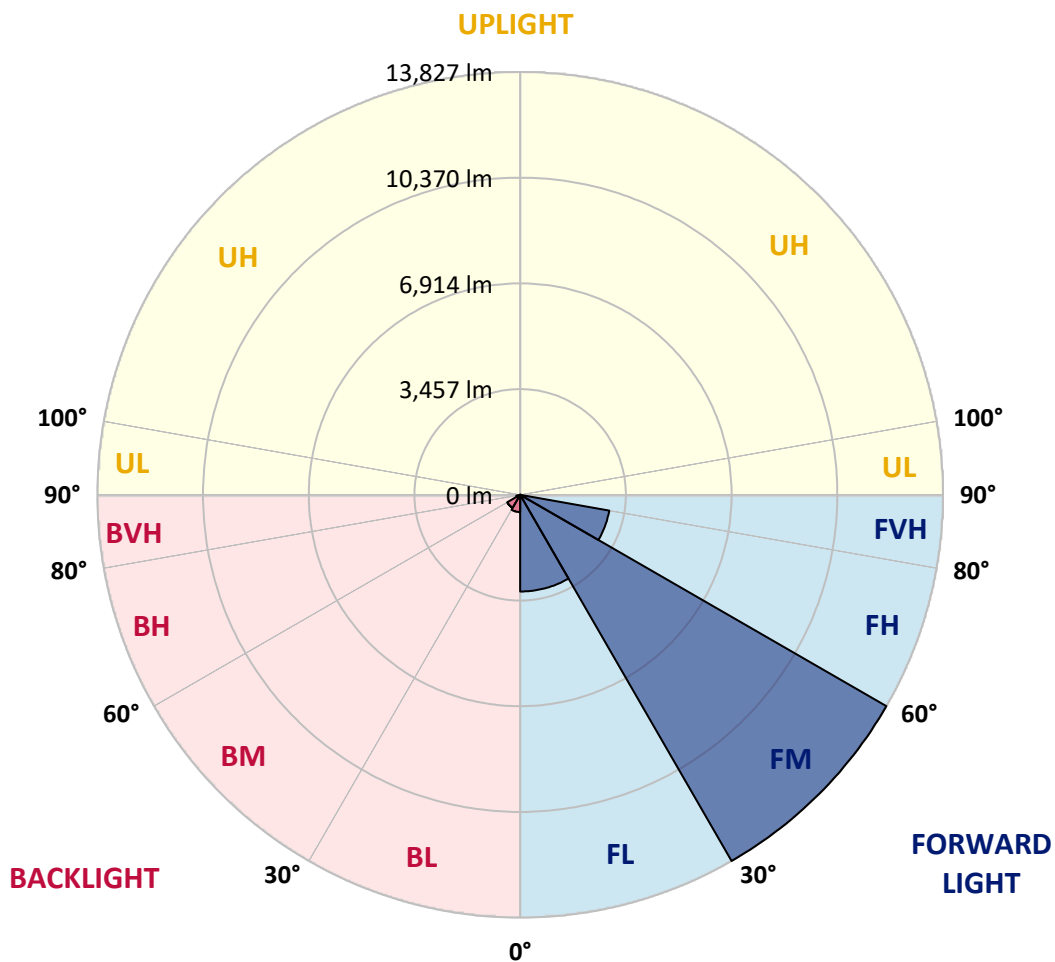
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3161.8	14.9			
FM	(30°-60°)	13827.2	65.3			
FH	(60°-80°)	2957.1	14.0			G2/5000
FVH	(80°-90°)	30.9	0.1			G1/100
BL	(0°-30°)	564.1	2.7	B2/1000		
BM	(30°-60°)	490.5	2.3	B1/1000		
BH	(60°-80°)	126.6	0.6	B1/500		G1/500
BVH	(80°-90°)	0.6	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





REPORT NUMBER: P269300

CATALOG NUMBER: GLEON-AF-05-LED-E1-AFL-7027-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5956.1	5956.1	5956.1	5956.1	5956.1	5956.1	5956.1	5956.1	5956.1	5956.1	5956.1
2.5°	7047.5	6972.6	6950.0	6935.1	6866.4	6780.2	6662.9	6607.9	6495.6	6314.5	6092.2
5°	7693.1	7679.3	7629.3	7601.8	7528.2	7405.7	7218.5	7128.6	6950.0	6645.4	6247.1
7.5°	7410.7	7497.0	7565.6	7680.5	7825.3	7820.4	7663.0	7569.4	7369.6	6967.6	6419.4
10°	6320.7	6390.6	6503.0	6764.0	7295.9	7765.4	7950.2	7882.7	7723.0	7263.4	6585.5
12.5°	6107.1	6099.8	6119.8	6195.9	6474.4	7143.6	7901.5	8037.7	8005.2	7534.4	6742.8
15°	6220.9	6212.0	6209.7	6235.9	6303.2	6585.5	7535.7	7926.6	8177.5	7785.4	6876.3
17.5°	6539.2	6501.8	6481.8	6460.6	6440.6	6510.6	7096.2	7615.7	8203.7	8005.2	6987.6
20°	7084.9	7022.5	6948.7	6828.9	6716.5	6681.7	6911.3	7295.9	8110.1	8172.5	7059.9
22.5°	7770.3	7690.5	7563.1	7344.6	7116.2	6983.8	7002.5	7194.7	7970.2	8354.7	7093.6
25°	8540.8	8438.5	8268.7	7965.2	7629.3	7394.6	7272.1	7339.6	7906.5	8568.4	7132.4
27.5°	9366.2	9252.6	9030.3	8617.0	8236.2	7919.0	7669.3	7660.6	8015.1	8848.0	7194.7
30°	10184.1	10166.6	9877.0	9439.8	8935.4	8549.6	8189.9	8143.8	8318.6	9235.1	7318.4
32.5°	11275.4	11144.4	10789.7	10340.2	9758.3	9295.0	8869.2	8761.9	8784.3	9685.9	7509.4
35°	12651.5	12507.8	12008.5	11387.9	10737.3	10190.4	9719.7	9573.4	9518.5	10423.8	7831.7
37.5°	13540.5	13537.9	13224.6	12592.8	11894.7	11291.6	10779.8	10608.7	10497.6	11315.4	8331.2
40°	13564.1	13622.8	13664.1	13657.9	13160.9	12605.2	12150.7	11939.7	11681.2	12506.7	8976.7
42.5°	12836.2	12987.3	13350.7	13967.6	14262.2	14041.1	13657.9	13450.6	13065.9	13781.4	9763.3
45°	11852.2	11957.2	12592.8	13729.1	14859.0	15464.7	15172.6	14801.6	14294.6	15111.3	10468.8
47.5°	11411.4	11430.3	11841.1	13088.5	14904.0	16631.0	16808.2	16205.2	15411.1	16182.6	11020.6
50°	10094.2	10127.9	10694.9	11978.4	14377.2	17181.6	18451.5	17879.5	16628.4	17008.0	11221.7
52.5°	7608.0	7655.5	8374.8	10154.1	12928.6	16946.9	19627.7	19489.1	17962.0	17411.4	11232.9
55°	4488.9	4551.4	5238.1	6835.2	10169.2	15453.5	19715.1	20224.6	19014.7	17649.9	11215.5
57.5°	2096.6	2140.2	2533.5	3521.3	6324.4	12213.1	18399.1	19720.1	19595.3	17776.0	11339.0
60°	1113.8	1126.3	1221.2	1524.7	2858.1	7744.2	15830.6	17807.2	19065.8	17950.8	11490.2
62.5°	851.7	855.4	850.3	886.5	1201.3	3437.5	11966.0	14639.3	16934.4	17819.7	11322.9
65°	738.0	744.2	709.2	700.5	770.4	1226.1	7108.6	10435.2	13307.0	16050.2	10182.8
67.5°	661.8	664.2	621.8	585.6	598.1	662.9	2804.5	5712.6	8808.2	11764.9	7380.8
70°	609.3	606.9	560.6	503.2	487.1	453.3	891.6	2093.9	4209.3	5966.2	3432.6
72.5°	539.4	540.7	518.2	443.3	404.5	317.1	413.3	610.6	1256.2	1625.8	804.2
75°	478.3	472.0	444.5	397.1	333.5	208.5	204.8	272.1	387.1	384.6	173.6
77.5°	345.8	339.6	348.4	325.8	255.9	134.8	102.3	131.2	157.4	152.4	48.7
80°	253.5	249.6	224.8	271.0	226.1	92.3	63.7	69.9	81.1	68.7	15.0
82.5°	173.6	172.4	158.6	149.8	128.5	56.1	40.0	43.7	52.5	38.6	7.5
85°	27.5	31.3	114.9	91.2	76.1	25.0	27.5	30.0	34.9	21.2	2.4
87.5°	0.0	0.0	53.7	47.4	15.0	10.1	16.2	17.4	17.4	11.1	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: P269300

CATALOG NUMBER: GLEON-AF-05-LED-E1-AFL-7027-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5956.1	5956.1	5956.1	5956.1	5956.1	5956.1	5956.1	5956.1	5956.1	5956.1	5956.1
2.5°	5978.6	5853.7	5622.8	5384.3	5163.2	4899.7	4718.6	4582.7	4425.3	4382.8	4475.1
5°	6019.8	5783.7	5286.9	4746.1	4237.9	3674.7	3244.0	2903.1	2594.8	2489.8	2584.8
7.5°	6084.7	5733.8	4923.5	4033.2	3149.1	2270.0	1668.2	1272.4	1020.1	945.2	985.3
10°	6149.6	5661.5	4502.7	3189.2	1980.4	1105.0	719.3	574.3	520.7	509.5	515.6
12.5°	6203.3	5564.0	3989.5	2267.6	1058.8	591.9	470.7	447.0	439.5	439.5	442.1
15°	6235.9	5416.7	3381.4	1442.1	609.3	447.0	410.9	403.2	403.2	404.5	407.0
17.5°	6232.1	5229.5	2715.8	872.9	455.8	395.9	374.7	368.3	367.0	369.7	370.8
20°	6185.9	4984.6	2047.7	575.6	397.1	360.8	339.6	328.4	327.2	329.7	332.2
22.5°	6098.5	4682.4	1464.6	443.3	358.3	327.2	300.9	291.0	291.0	293.4	295.9
25°	5992.4	4312.9	1001.4	375.9	323.4	291.0	266.0	257.3	259.7	266.0	267.2
27.5°	5860.0	3897.0	680.6	322.1	280.9	254.7	236.0	229.7	236.0	244.8	247.3
30°	5746.4	3463.8	485.8	278.5	238.5	219.7	208.5	208.5	217.3	233.5	237.2
32.5°	5659.0	3044.3	374.7	246.0	207.2	191.0	184.8	191.0	204.8	221.1	224.8
35°	5647.7	2698.4	317.1	219.7	184.8	168.5	166.0	177.3	191.0	203.6	206.0
37.5°	5733.8	2378.7	285.9	198.5	164.7	149.8	147.3	161.1	174.8	189.8	193.6
40°	5897.5	2127.7	263.5	178.6	148.6	132.4	127.4	137.4	156.0	176.1	181.1
42.5°	6109.7	1920.4	238.5	158.6	132.4	110.0	103.7	114.9	134.8	156.0	162.4
45°	6312.0	1741.9	211.0	136.2	111.1	84.9	82.5	97.3	107.3	128.5	133.6
47.5°	6423.2	1584.5	187.2	111.1	86.1	68.7	68.7	72.5	82.5	107.3	112.4
50°	6385.6	1458.5	162.4	82.5	59.9	52.5	52.5	51.3	66.1	86.1	89.9
52.5°	6310.8	1386.1	139.9	63.7	41.2	37.5	33.6	37.5	46.3	54.9	56.1
55°	6299.5	1373.5	117.4	51.3	28.7	25.0	18.8	18.8	18.8	17.4	15.0
57.5°	6386.9	1393.5	98.6	41.2	21.2	16.2	10.1	0.0	0.0	0.0	0.0
60°	6476.8	1414.7	84.9	28.7	15.0	8.8	1.3	0.0	0.0	0.0	0.0
62.5°	6326.9	1367.3	71.1	17.4	11.1	3.8	0.0	0.0	0.0	0.0	0.0
65°	5557.9	1163.8	56.1	12.4	7.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3953.4	779.2	37.5	7.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	1804.3	325.8	23.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	385.8	101.1	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	78.6	73.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	25.0	116.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	15.0	83.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.4	12.4	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)