

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: P191724

Luminaire Tested: **GLEON-AF-06-LED-E1-AFL-7050-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191724
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-06-LED-E1-AFL-7050-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 800mA 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: 23547 lumens
Efficiency: N/A
Efficacy: 94.6 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): 249
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

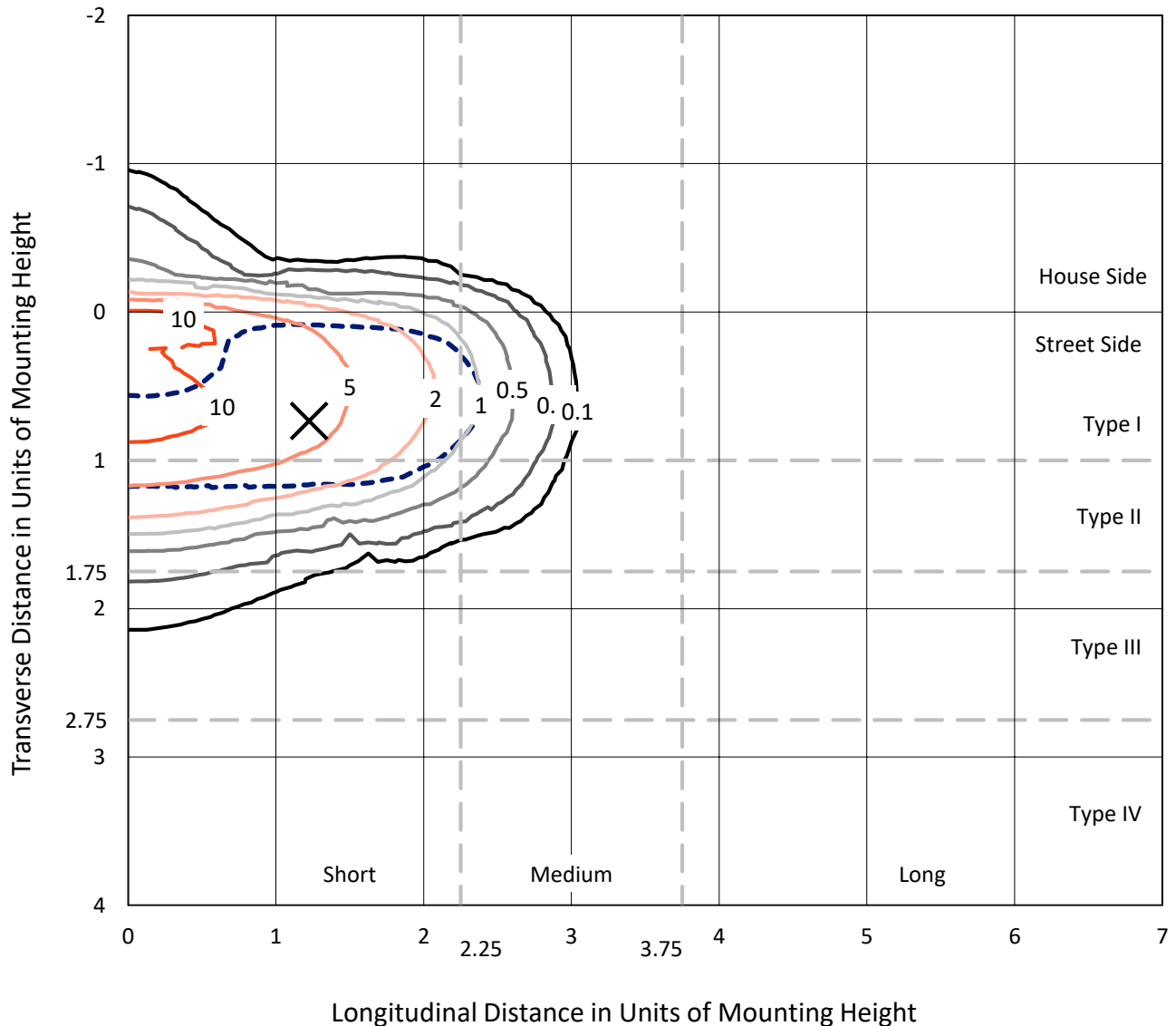


REPORT NUMBER: P191724

CATALOG NUMBER: GLEON-AF-06-LED-E1-AFL-7050-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

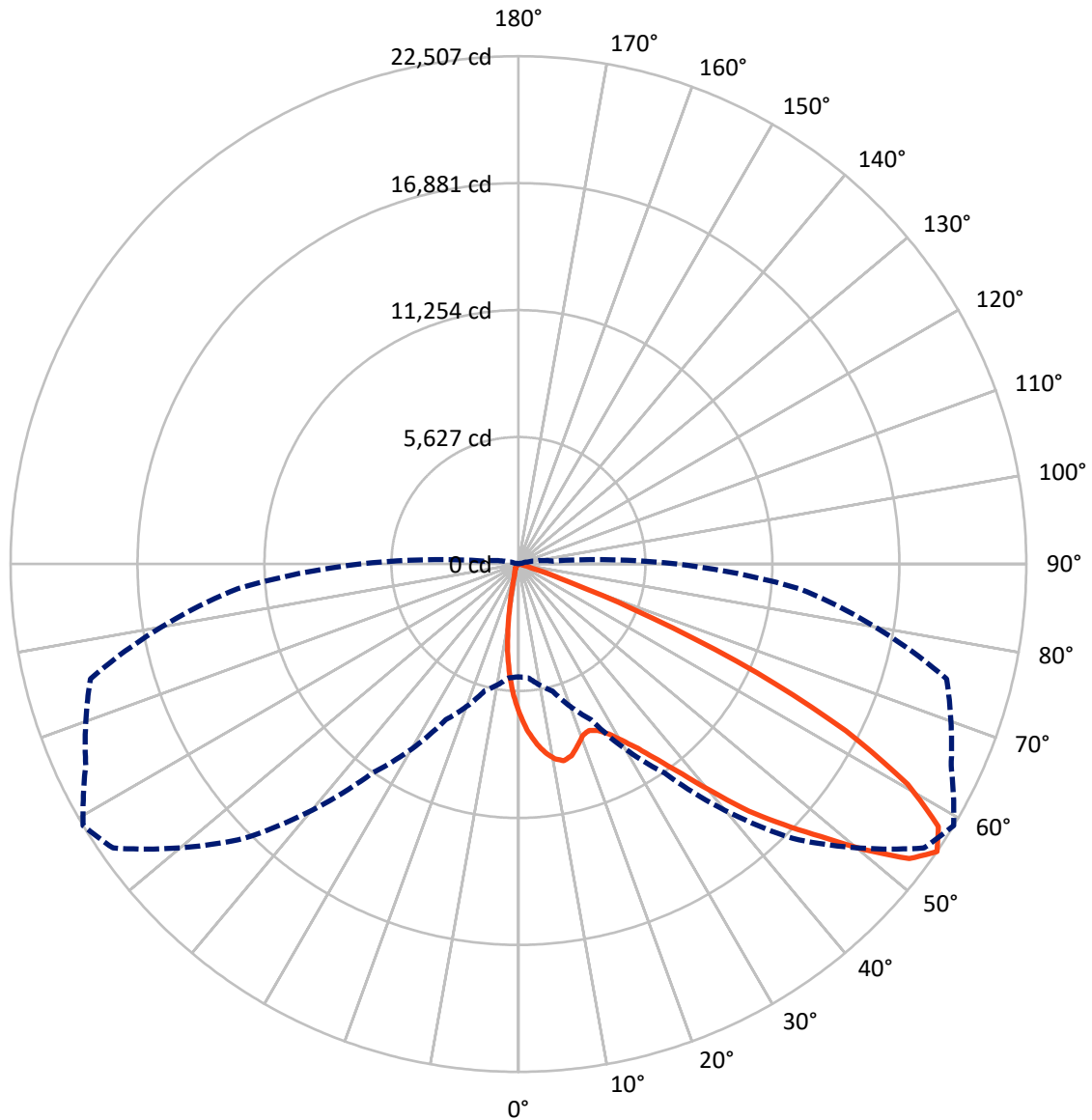


Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P191724

CATALOG NUMBER: GLEON-AF-06-LED-E1-AFL-7050-800-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191724

CATALOG NUMBER: GLEON-AF-06-LED-E1-AFL-7050-800-HSS

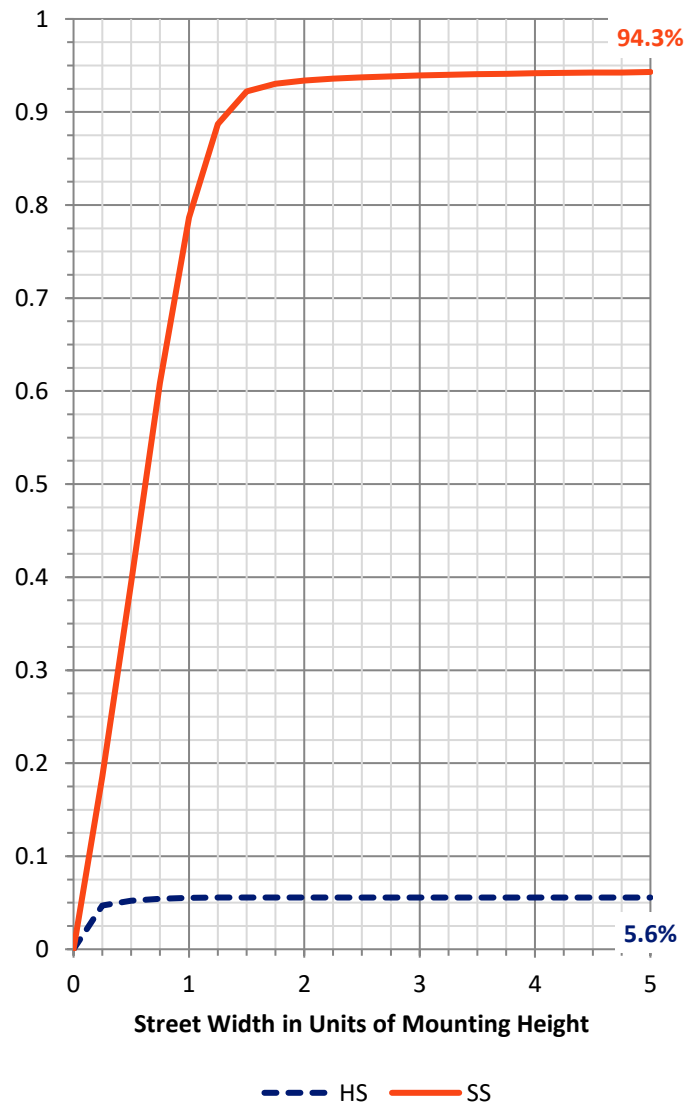
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1315.2	0.0	1315.2
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	22231.8	0.0	22231.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	23547.0	0.0	23547.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.2	2.4
10°-20°	1329.3	5.6
20°-30°	2262.0	9.6
30°-40°	3890.1	16.5
40°-50°	6005.8	25.5
50°-60°	6037.8	25.6
60°-70°	3096.2	13.1
70°-80°	335.5	1.4
80°-90°	35.1	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°	23547.0	100.0
0°-180°	23547.0	100.0

Coefficient of Utilization



REPORT NUMBER: P191724

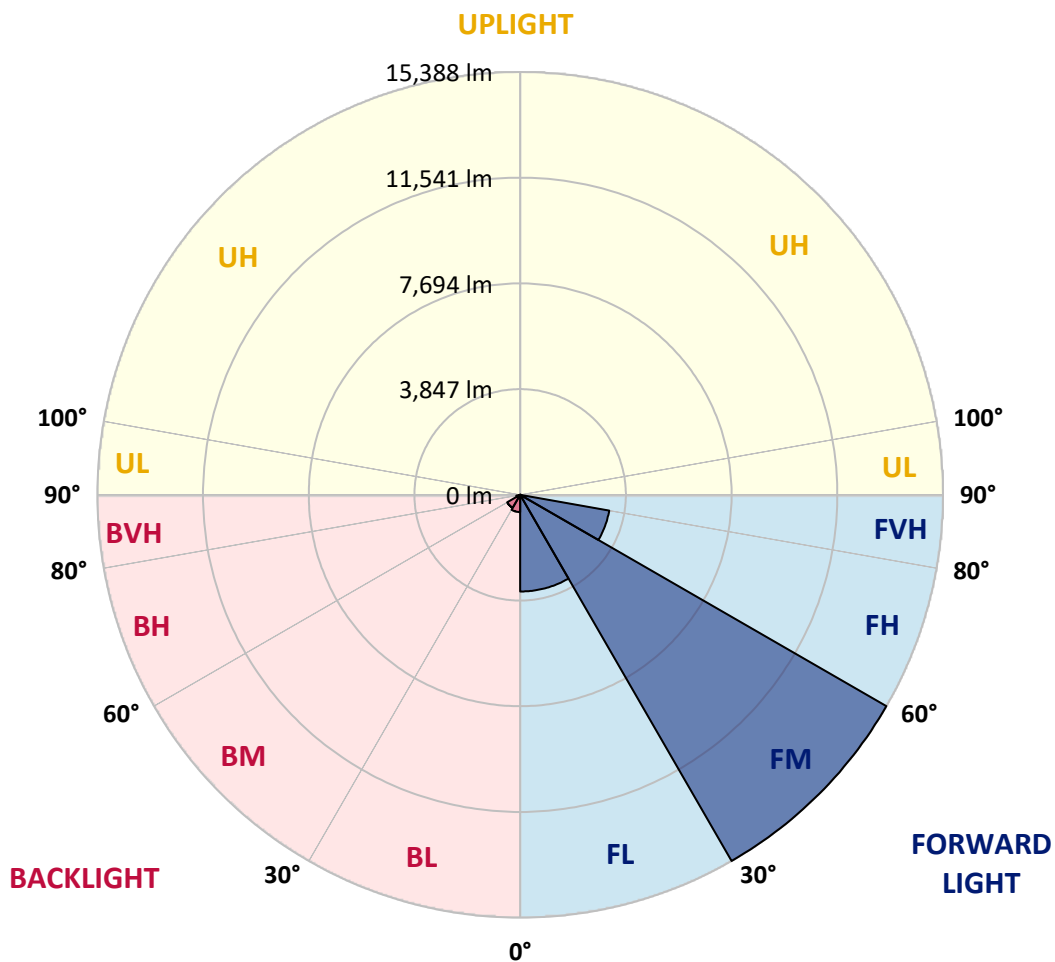
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3518.7	14.9			
FM	(30°-60°)	15387.9	65.3			
FH	(60°-80°)	3290.9	14.0			G2/5000
FVH	(80°-90°)	34.4	0.1			G1/100
BL	(0°-30°)	627.8	2.7	B2/1000		
BM	(30°-60°)	545.8	2.3	B1/1000		
BH	(60°-80°)	140.9	0.6	B1/500		G1/500
BVH	(80°-90°)	0.7	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: P191724

CATALOG NUMBER: GLEON-AF-06-LED-E1-AFL-7050-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6628.4	6628.4	6628.4	6628.4	6628.4	6628.4	6628.4	6628.4	6628.4	6628.4	6628.4
2.5°	7842.9	7759.5	7734.5	7717.8	7641.4	7545.5	7414.9	7353.8	7228.7	7027.2	6779.9
5°	8561.3	8546.0	8490.5	8459.9	8377.9	8241.7	8033.3	7933.2	7734.5	7395.5	6952.2
7.5°	8247.3	8343.2	8419.6	8547.4	8708.6	8703.1	8528.0	8423.8	8201.4	7754.0	7143.9
10°	7034.2	7112.0	7237.0	7527.5	8119.4	8641.9	8847.6	8772.5	8594.7	8083.3	7328.8
12.5°	6796.5	6788.2	6810.4	6895.2	7205.1	7949.9	8793.4	8944.9	8908.7	8384.9	7503.8
15°	6923.0	6913.3	6910.5	6939.7	7014.7	7328.8	8386.2	8821.2	9100.5	8664.2	7652.5
17.5°	7277.3	7235.7	7213.4	7189.8	7167.6	7245.4	7897.1	8475.2	9129.7	8908.7	7776.2
20°	7884.6	7815.1	7733.1	7599.7	7474.7	7435.8	7691.4	8119.4	9025.5	9094.9	7856.8
22.5°	8647.5	8558.6	8416.8	8173.6	7919.3	7772.0	7792.9	8006.9	8869.8	9297.8	7894.3
25°	9504.9	9390.9	9201.9	8864.3	8490.5	8229.2	8093.0	8168.1	8799.0	9535.4	7937.4
27.5°	10423.4	10296.9	10049.6	9589.6	9165.8	8812.8	8534.9	8525.2	8919.8	9846.7	8006.9
30°	11333.6	11314.1	10991.7	10505.4	9944.0	9514.6	9114.4	9063.0	9257.5	10277.5	8144.4
32.5°	12548.1	12402.2	12007.5	11507.3	10859.7	10344.2	9870.3	9750.8	9775.8	10779.1	8357.1
35°	14079.4	13919.6	13363.8	12673.2	11949.2	11340.5	10816.7	10654.1	10592.9	11600.4	8715.6
37.5°	15068.8	15066.1	14717.3	14014.1	13237.3	12566.2	11996.4	11806.0	11682.4	12592.6	9271.4
40°	15095.2	15160.5	15206.4	15199.5	14646.4	14028.0	13522.2	13287.4	12999.7	13918.2	9989.8
42.5°	14285.1	14453.2	14857.6	15544.1	15872.0	15626.1	15199.5	14968.8	14540.8	15337.0	10865.3
45°	13190.1	13306.8	14014.1	15278.7	16536.2	17210.2	16885.0	16472.3	15908.1	16816.9	11650.4
47.5°	12699.6	12720.4	13177.6	14565.8	16586.3	18508.1	18705.4	18034.2	17150.5	18009.2	12264.6
50°	11233.5	11271.1	11901.9	13330.4	15999.9	19120.9	20534.1	19897.7	18505.3	18927.8	12488.3
52.5°	8466.8	8519.6	9320.1	11300.2	14387.9	18859.7	21843.1	21688.9	19989.4	19376.6	12500.8
55°	4995.6	5065.1	5829.4	7606.7	11316.9	17197.7	21940.4	22507.4	21160.8	19642.0	12481.4
57.5°	2333.1	2381.8	2819.5	3918.7	7038.3	13591.7	20475.8	21946.0	21807.0	19782.4	12619.0
60°	1239.5	1253.4	1359.0	1696.7	3180.8	8618.3	17617.4	19817.1	21217.8	19976.9	12787.1
62.5°	947.7	951.9	946.3	986.6	1336.8	3825.6	13316.5	16291.7	18845.8	19831.0	12600.9
65°	821.3	828.2	789.3	779.6	857.4	1364.6	7911.0	11612.9	14809.0	17861.9	11332.2
67.5°	736.5	739.3	692.0	651.7	665.6	737.9	3121.0	6357.4	9802.2	13092.8	8213.9
70°	678.1	675.3	623.9	560.0	541.9	504.4	992.2	2330.4	4684.3	6639.5	3820.0
72.5°	600.3	601.7	576.7	493.3	450.2	353.0	460.0	679.5	1397.9	1809.3	894.9
75°	532.2	525.3	494.7	441.9	371.0	232.1	227.9	302.9	430.8	428.0	193.2
77.5°	384.9	378.0	387.7	362.7	284.9	150.1	113.9	145.9	175.1	169.5	54.2
80°	282.1	277.9	250.1	301.5	251.5	102.8	70.9	77.8	90.3	76.4	16.7
82.5°	193.2	191.8	176.5	166.8	143.1	62.5	44.5	48.6	58.4	43.1	8.3
85°	30.6	34.7	127.8	101.4	84.8	27.8	30.6	33.4	38.9	23.6	2.8
87.5°	0.0	0.0	59.8	52.8	16.7	11.1	18.1	19.5	19.5	12.5	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: P191724

CATALOG NUMBER: GLEON-AF-06-LED-E1-AFL-7050-800-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6628.4	6628.4	6628.4	6628.4	6628.4	6628.4	6628.4	6628.4	6628.4	6628.4	6628.4
2.5°	6653.4	6514.4	6257.4	5992.0	5746.0	5452.8	5251.3	5099.8	4924.7	4877.5	4980.3
5°	6699.3	6436.6	5883.6	5281.9	4716.3	4089.6	3610.2	3230.8	2887.6	2770.9	2876.5
7.5°	6771.5	6381.0	5479.2	4488.4	3504.6	2526.3	1856.5	1416.0	1135.3	1051.9	1096.4
10°	6843.8	6300.4	5010.9	3549.0	2203.9	1229.8	800.4	639.2	579.5	567.0	573.9
12.5°	6903.5	6192.1	4439.8	2523.5	1178.4	658.7	523.9	497.5	489.1	489.1	491.9
15°	6939.7	6028.1	3763.0	1605.0	678.1	497.5	457.2	448.8	448.8	450.2	453.0
17.5°	6935.5	5819.6	3022.4	971.3	507.2	440.5	416.9	409.9	408.5	411.3	412.7
20°	6884.1	5547.3	2278.9	640.6	441.9	401.6	378.0	365.5	364.1	366.9	369.6
22.5°	6786.8	5211.0	1630.0	493.3	398.8	364.1	334.9	323.8	323.8	326.6	329.3
25°	6668.7	4799.7	1114.5	418.3	359.9	323.8	296.0	286.3	289.0	296.0	297.4
27.5°	6521.4	4336.9	757.3	358.5	312.7	283.5	262.6	255.7	262.6	272.4	275.1
30°	6394.9	3854.8	540.6	309.9	265.4	244.6	232.1	232.1	241.8	259.9	264.0
32.5°	6297.7	3387.8	416.9	273.8	230.7	212.6	205.7	212.6	227.9	246.0	250.1
35°	6285.2	3002.9	353.0	244.6	205.7	187.6	184.8	197.3	212.6	226.5	229.3
37.5°	6381.0	2647.2	318.2	220.9	183.4	166.8	164.0	179.3	194.5	211.2	215.4
40°	6563.1	2367.9	293.2	198.7	165.4	147.3	141.7	152.9	173.7	195.9	201.5
42.5°	6799.3	2137.2	265.4	176.5	147.3	122.3	115.3	127.8	150.1	173.7	180.6
45°	7024.4	1938.5	234.8	151.5	123.7	94.5	91.7	108.4	119.5	143.1	148.7
47.5°	7148.1	1763.4	208.4	123.7	95.9	76.4	76.4	80.6	91.7	119.5	125.1
50°	7106.4	1623.1	180.6	91.7	66.7	58.4	58.4	57.0	73.6	95.9	100.1
52.5°	7023.0	1542.5	155.6	70.9	45.9	41.7	37.5	41.7	51.4	61.1	62.5
55°	7010.5	1528.6	130.6	57.0	32.0	27.8	20.8	20.8	20.8	19.5	16.7
57.5°	7107.8	1550.8	109.8	45.9	23.6	18.1	11.1	0.0	0.0	0.0	0.0
60°	7207.9	1574.4	94.5	32.0	16.7	9.7	1.4	0.0	0.0	0.0	0.0
62.5°	7041.1	1521.6	79.2	19.5	12.5	4.2	0.0	0.0	0.0	0.0	0.0
65°	6185.1	1295.1	62.5	13.9	8.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4399.5	867.1	41.7	8.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	2008.0	362.7	26.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	429.4	112.6	18.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	87.5	82.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	27.8	129.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	16.7	93.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.8	13.9	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)