

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: P300643

Luminaire Tested: **GLNA-AF-08-LED-E1-AFL-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300643
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: GLNA-AF-08-LED-E1-AFL-7030-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline WITH HOUSESIDE SHIELD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34316.7 lumens
Efficiency: N/A
Efficacy: 77.1 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): 445
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

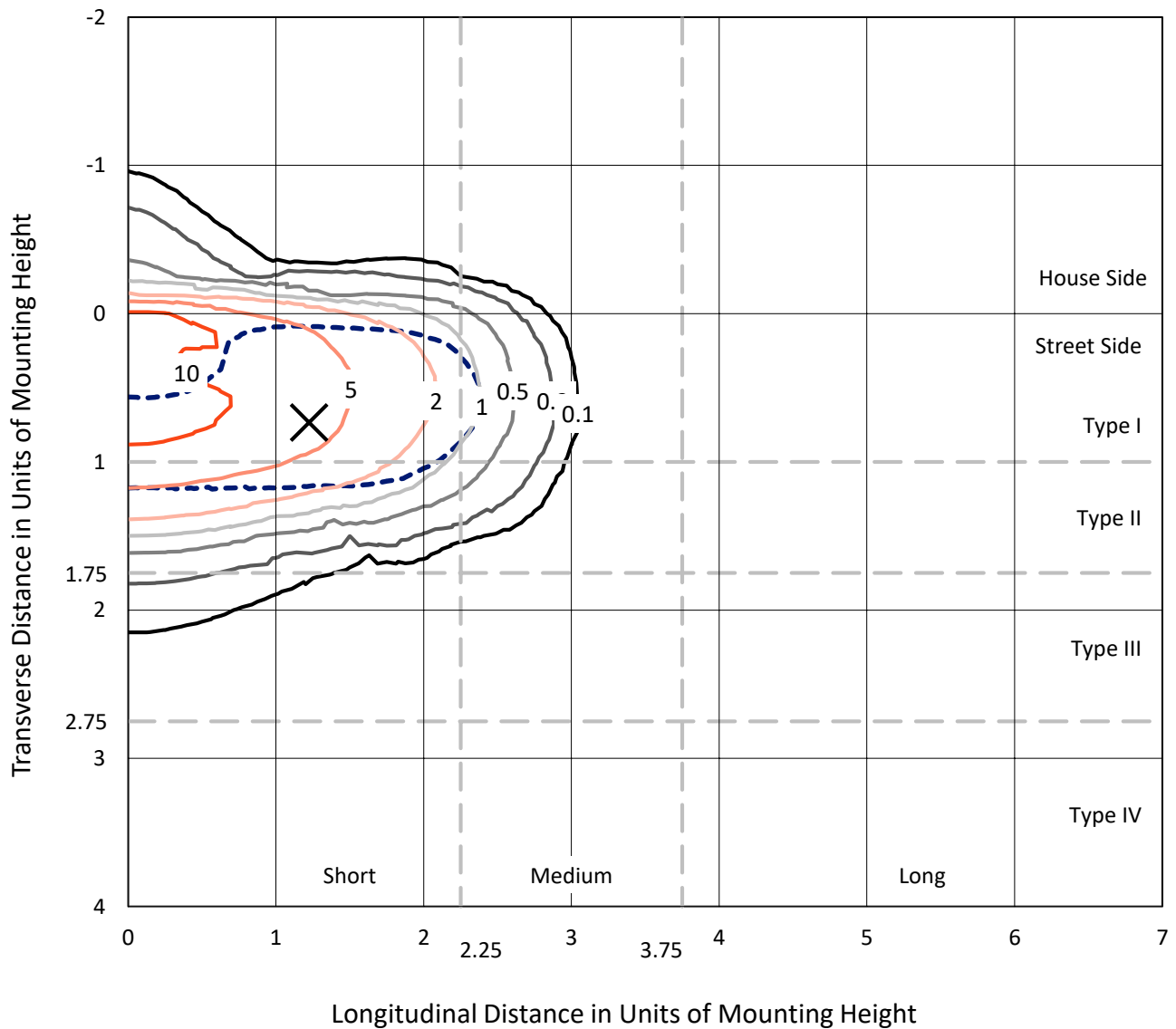


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Iso-Footcandle Lines of Horizontal Illumination

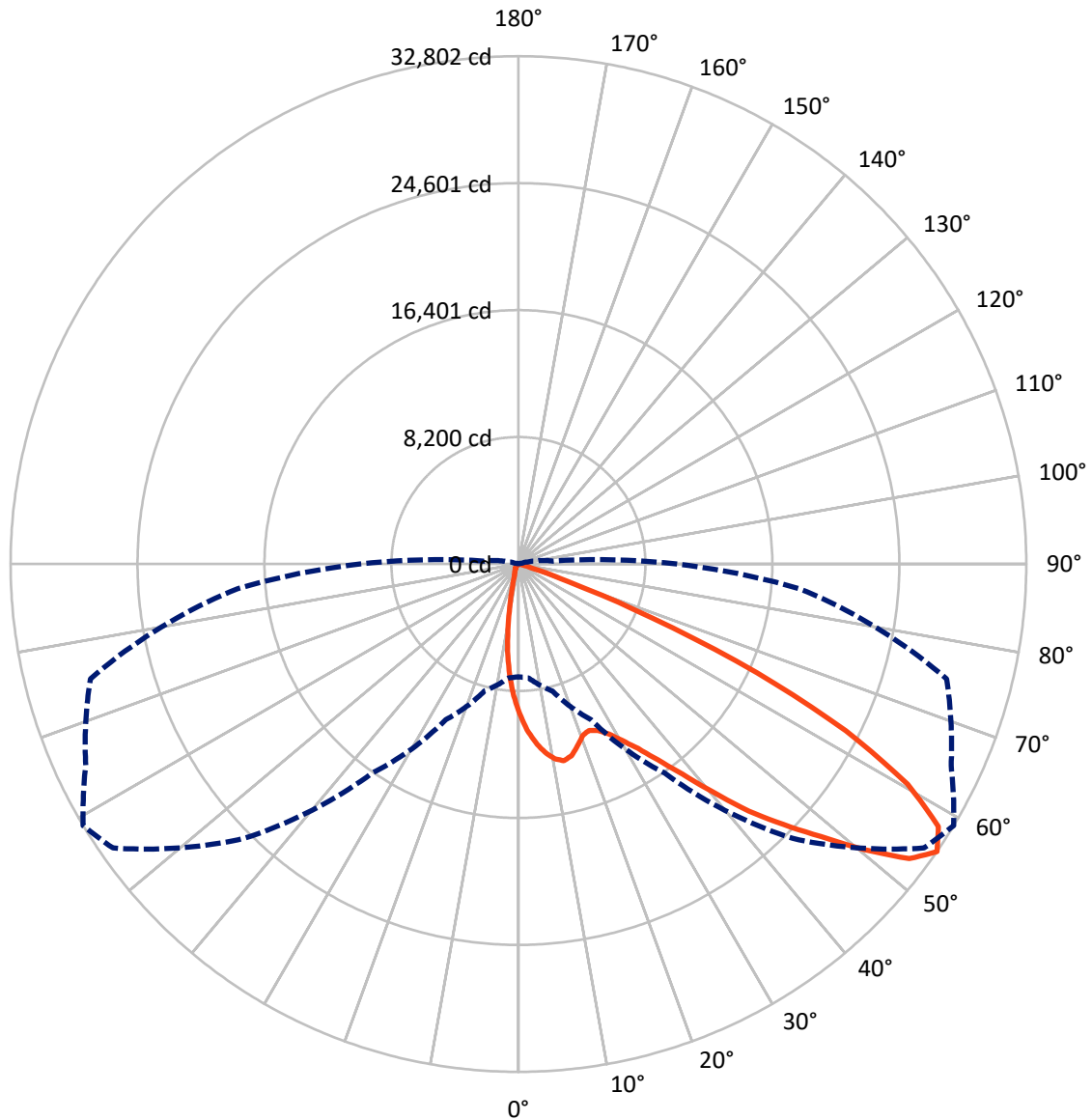
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.4 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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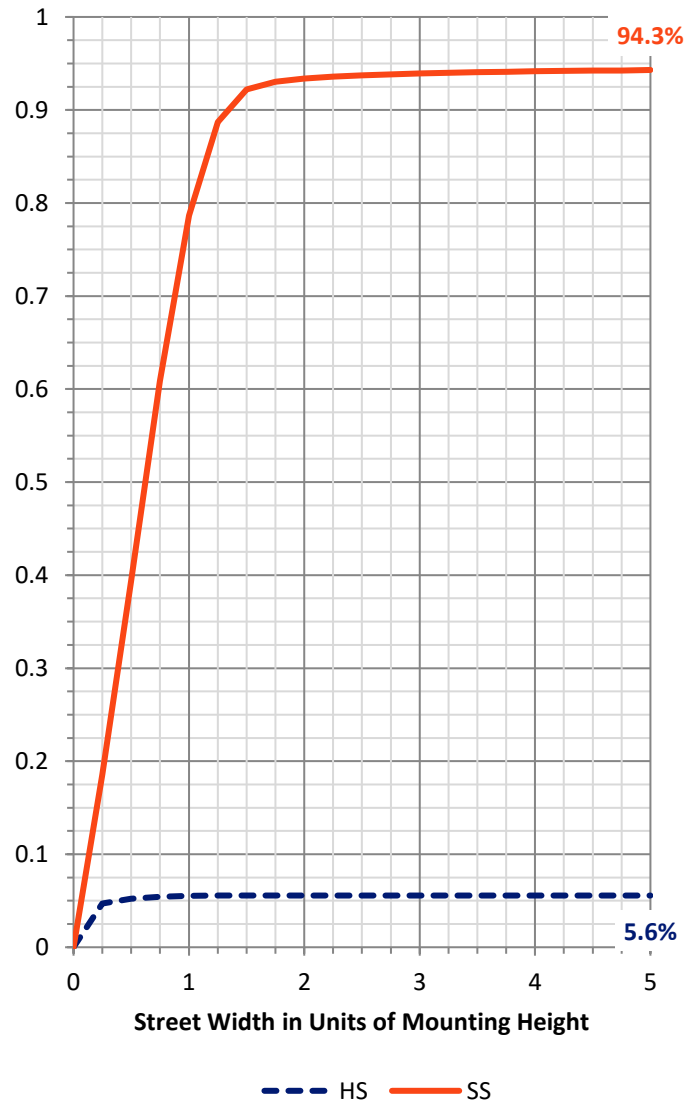
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1916.8	0.0	1916.8
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	32399.9	0.0	32399.9
	% Fixture	94.4	0.0	94.4
Total	Lumens	34316.7	0.0	34316.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	809.1	2.4
10°-20°	1937.3	5.6
20°-30°	3296.5	9.6
30°-40°	5669.3	16.5
40°-50°	8752.7	25.5
50°-60°	8799.3	25.6
60°-70°	4512.3	13.1
70°-80°	489.0	1.4
80°-90°	51.1	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°	34316.7	100.0
0°-180°	34316.7	100.0

Coefficient of Utilization



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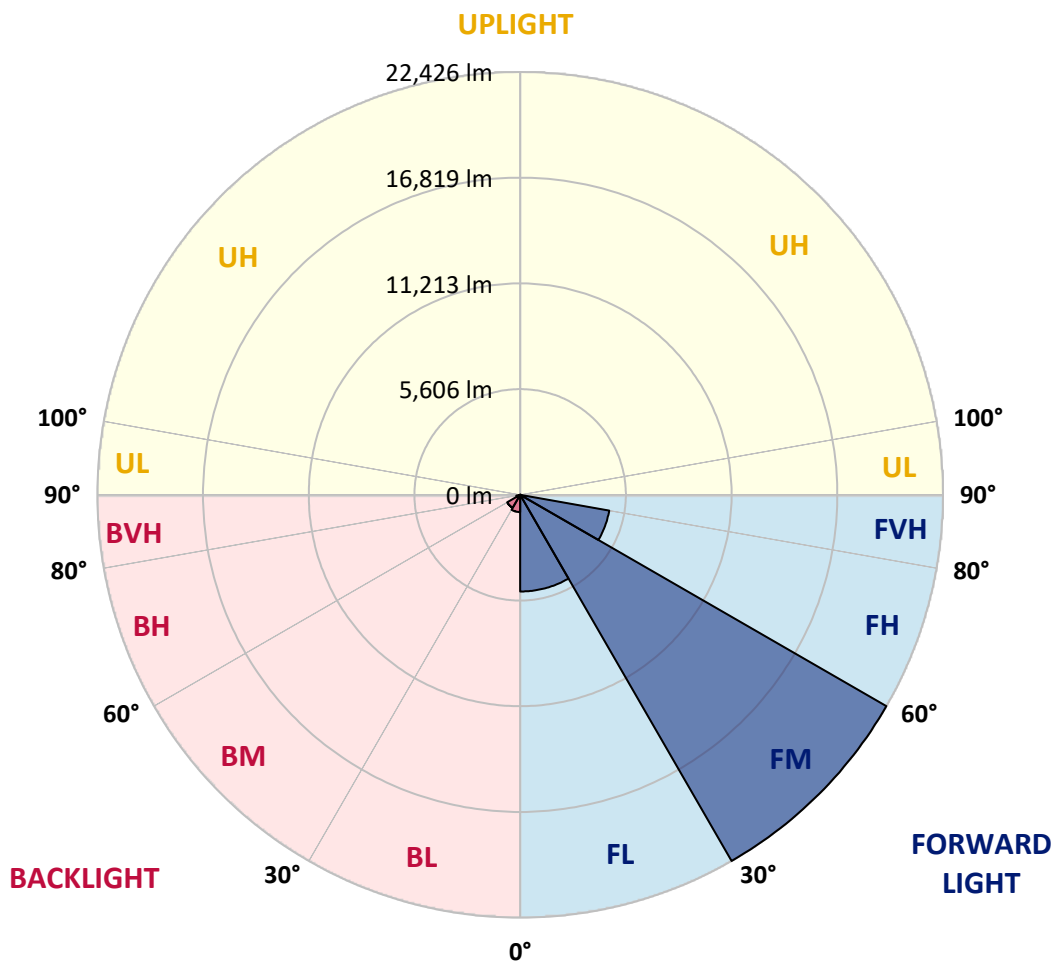
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5128.0	14.9			
FM	(30°-60°)	22425.8	65.3			
FH	(60°-80°)	4796.0	14.0			G2/5000
FVH	(80°-90°)	50.1	0.1			G1/100
BL	(0°-30°)	914.9	2.7	B2/1000		
BM	(30°-60°)	795.5	2.3	B1/1000		
BH	(60°-80°)	205.4	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°	9660.0	9660.0	9660.0	9660.0	9660.0	9660.0	9660.0	9660.0	9660.0	9660.0	9660.0
2.5°	11430.0	11308.5	11272.1	11247.7	11136.4	10996.6	10806.3	10717.2	10534.9	10241.2	9880.8
5°	12477.0	12454.7	12373.7	12329.2	12209.7	12011.2	11707.5	11561.6	11272.1	10777.9	10131.9
7.5°	12019.3	12159.1	12270.5	12456.8	12691.7	12683.6	12428.4	12276.5	11952.5	11300.4	10411.4
10°	10251.4	10364.8	10547.0	10970.3	11833.0	12594.5	12894.2	12784.8	12525.6	11780.4	10680.7
12.5°	9905.1	9892.9	9925.3	10048.9	10500.5	11586.0	12815.2	13036.0	12983.3	12219.8	10935.9
15°	10089.4	10075.2	10071.1	10113.7	10223.0	10680.7	12221.9	12855.7	13262.8	12626.9	11152.6
17.5°	10605.8	10545.0	10512.6	10478.2	10445.8	10559.2	11509.0	12351.5	13305.3	12983.3	11332.8
20°	11490.8	11389.5	11270.0	11075.6	10893.3	10836.6	11209.3	11833.0	13153.4	13254.7	11450.3
22.5°	12602.6	12473.0	12266.4	11912.0	11541.4	11326.7	11357.1	11669.0	12926.6	13550.4	11504.9
25°	13852.1	13686.0	13410.6	12918.5	12373.7	11993.0	11794.5	11903.9	12823.3	13896.7	11567.7
27.5°	15190.7	15006.4	14646.0	13975.6	13358.0	12843.6	12438.5	12424.4	12999.5	14350.3	11669.0
30°	16517.2	16488.9	16019.0	15310.2	14492.1	13866.3	13283.0	13208.1	13491.6	14978.1	11869.5
32.5°	18287.2	18074.6	17499.4	16770.4	15826.6	15075.3	14384.7	14210.6	14247.0	15709.2	12179.3
35°	20518.9	20286.0	19476.0	18469.5	17414.4	16527.3	15763.9	15526.9	15437.8	16906.1	12701.8
37.5°	21960.9	21956.8	21448.5	20423.8	19291.7	18313.5	17483.2	17205.8	17025.5	18352.0	13511.9
40°	21999.3	22094.5	22161.3	22151.2	21345.2	20444.0	19706.8	19364.6	18945.4	20284.0	14558.9
42.5°	20818.7	21063.7	21653.0	22653.5	23131.4	22772.9	22151.2	21815.0	21191.3	22351.7	15834.7
45°	19222.8	19392.9	20423.8	22266.7	24099.4	25081.6	24607.7	24006.3	23184.1	24508.5	16979.0
47.5°	18508.0	18538.3	19204.6	21227.7	24172.3	26973.1	27260.7	26282.6	24994.5	26246.1	17874.1
50°	16371.4	16426.1	17345.5	19427.4	23317.7	27866.2	29925.8	28998.3	26969.1	27584.7	18200.1
52.5°	12339.3	12416.3	13582.8	16468.6	20968.5	27485.5	31833.5	31608.7	29132.0	28238.9	18218.4
55°	7280.5	7381.7	8495.6	11085.7	16492.9	25063.4	31975.3	32801.5	30839.2	28625.7	18190.0
57.5°	3400.2	3471.1	4109.1	5711.0	10257.4	19808.1	29840.8	31983.4	31780.9	28830.2	18390.5
60°	1806.4	1826.7	1980.6	2472.7	4635.6	12560.1	25675.0	28880.8	30922.2	29113.7	18635.5
62.5°	1381.2	1387.2	1379.1	1437.9	1948.2	5575.3	19407.1	23743.0	27465.2	28901.1	18364.2
65°	1196.9	1207.0	1150.3	1136.1	1249.5	1988.7	11529.2	16924.3	21582.1	26031.4	16515.2
67.5°	1073.3	1077.4	1008.5	949.8	970.1	1075.4	4548.5	9265.1	14285.5	19081.1	11970.7
70°	988.3	984.2	909.3	816.1	789.8	735.1	1446.0	3396.2	6826.8	9676.2	5567.2
72.5°	874.9	876.9	840.4	718.9	656.2	514.4	670.3	990.3	2037.3	2636.8	1304.2
75°	775.6	765.5	721.0	644.0	540.7	338.2	332.1	441.5	627.8	623.7	281.5
77.5°	561.0	550.8	565.0	528.6	415.2	218.7	166.1	212.6	255.2	247.1	79.0
80°	411.1	405.0	364.5	439.5	366.6	149.9	103.3	113.4	131.6	111.4	24.3
82.5°	281.5	279.5	257.2	243.0	208.6	91.1	64.8	70.9	85.1	62.8	12.2
85°	44.6	50.6	186.3	147.8	123.5	40.5	44.6	48.6	56.7	34.4	4.1
87.5°	0.0	0.0	87.1	77.0	24.3	16.2	26.3	28.4	28.4	18.2	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°	9660.0	9660.0	9660.0	9660.0	9660.0	9660.0	9660.0	9660.0	9660.0	9660.0	9660.0
2.5°	9696.5	9494.0	9119.3	8732.5	8374.0	7946.7	7653.1	7432.3	7177.2	7108.3	7258.2
5°	9763.3	9380.5	8574.5	7697.6	6873.4	5960.1	5261.4	4708.5	4208.3	4038.2	4192.1
7.5°	9868.6	9299.5	7985.2	6541.3	5107.5	3681.7	2705.6	2063.6	1654.6	1533.0	1597.9
10°	9973.9	9182.1	7302.7	5172.3	3211.9	1792.3	1166.5	931.6	844.5	826.3	836.4
12.5°	10061.0	9024.1	6470.4	3677.7	1717.3	959.9	763.5	725.0	712.9	712.9	716.9
15°	10113.7	8785.2	5484.1	2339.1	988.3	725.0	666.3	654.1	654.1	656.2	660.2
17.5°	10107.6	8481.4	4404.7	1415.6	739.2	642.0	607.5	597.4	595.4	599.4	601.5
20°	10032.7	8084.4	3321.3	933.6	644.0	585.3	550.8	532.6	530.6	534.6	538.7
22.5°	9890.9	7594.4	2375.5	718.9	581.2	530.6	488.1	471.9	471.9	475.9	480.0
25°	9718.8	6994.9	1624.2	609.6	524.5	471.9	431.4	417.2	421.2	431.4	433.4
27.5°	9504.1	6320.5	1103.7	522.5	455.7	413.1	382.8	372.6	382.8	396.9	401.0
30°	9319.8	5617.8	787.8	451.6	386.8	356.4	338.2	338.2	352.4	378.7	384.8
32.5°	9178.0	4937.3	607.5	399.0	336.2	309.8	299.7	309.8	332.1	358.5	364.5
35°	9159.8	4376.4	514.4	356.4	299.7	273.4	269.3	287.6	309.8	330.1	334.2
37.5°	9299.5	3857.9	463.8	322.0	267.3	243.0	239.0	261.2	283.5	307.8	313.9
40°	9564.8	3450.9	427.3	289.6	241.0	214.7	206.6	222.8	253.1	285.5	293.6
42.5°	9909.1	3114.7	386.8	257.2	214.7	178.2	168.1	186.3	218.7	253.1	263.3
45°	10237.2	2825.1	342.3	220.7	180.2	137.7	133.7	158.0	174.2	208.6	216.7
47.5°	10417.4	2569.9	303.8	180.2	139.7	111.4	111.4	117.5	133.7	174.2	182.3
50°	10356.7	2365.4	263.3	133.7	97.2	85.1	85.1	83.0	107.3	139.7	145.8
52.5°	10235.2	2247.9	226.8	103.3	66.8	60.8	54.7	60.8	74.9	89.1	91.1
55°	10216.9	2227.7	190.4	83.0	46.6	40.5	30.4	30.4	30.4	28.4	24.3
57.5°	10358.7	2260.1	160.0	66.8	34.4	26.3	16.2	0.0	0.0	0.0	0.0
60°	10504.5	2294.5	137.7	46.6	24.3	14.2	2.0	0.0	0.0	0.0	0.0
62.5°	10261.5	2217.6	115.4	28.4	18.2	6.1	0.0	0.0	0.0	0.0	0.0
65°	9014.0	1887.5	91.1	20.3	12.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6411.7	1263.7	60.8	12.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2926.4	528.6	38.5	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	625.8	164.0	26.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	127.6	119.5	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	40.5	188.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	24.3	135.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.1	20.3	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)