

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: P190938

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190938
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-10-LED-E1-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 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: 49336.9 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 558
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

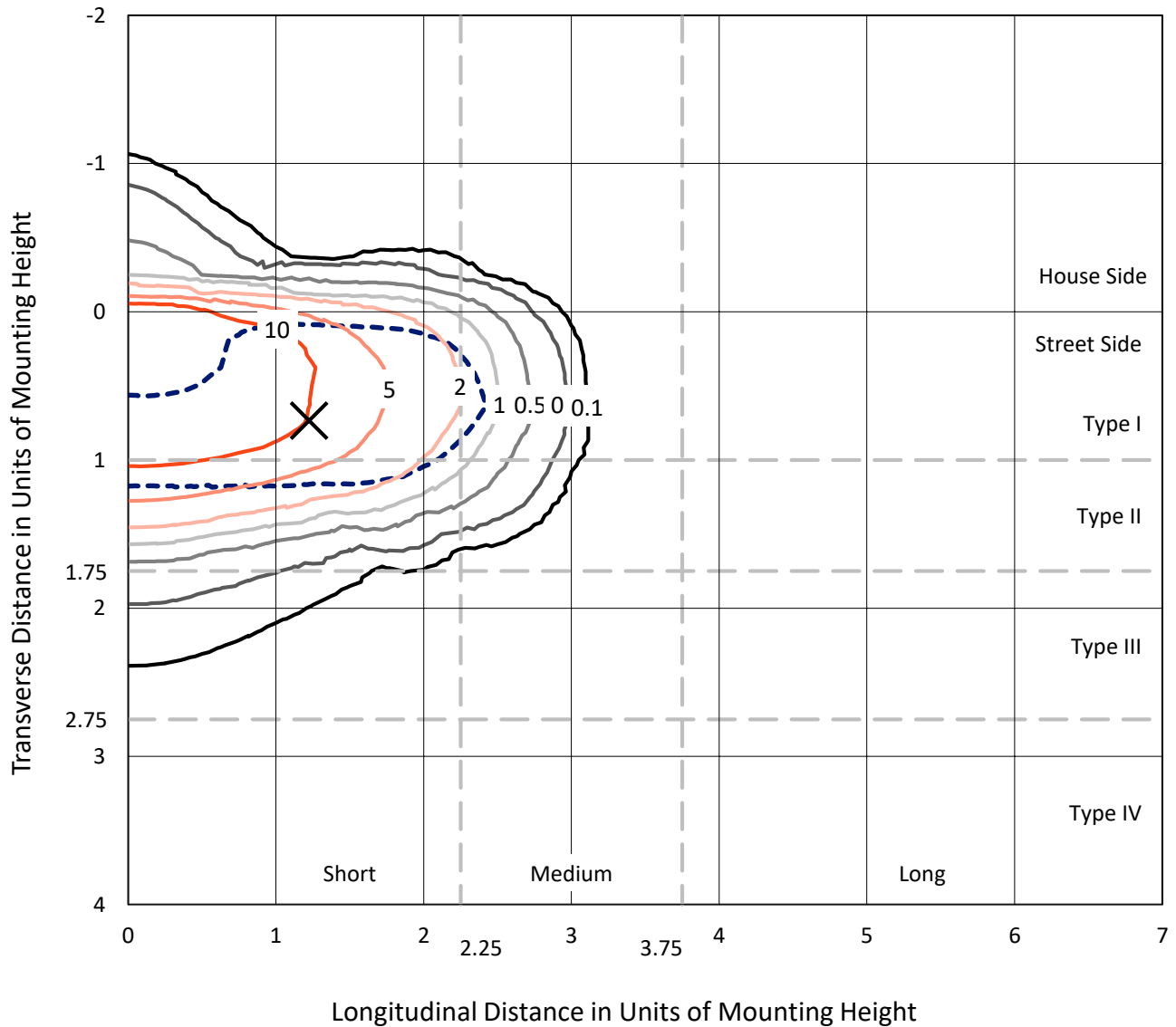


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

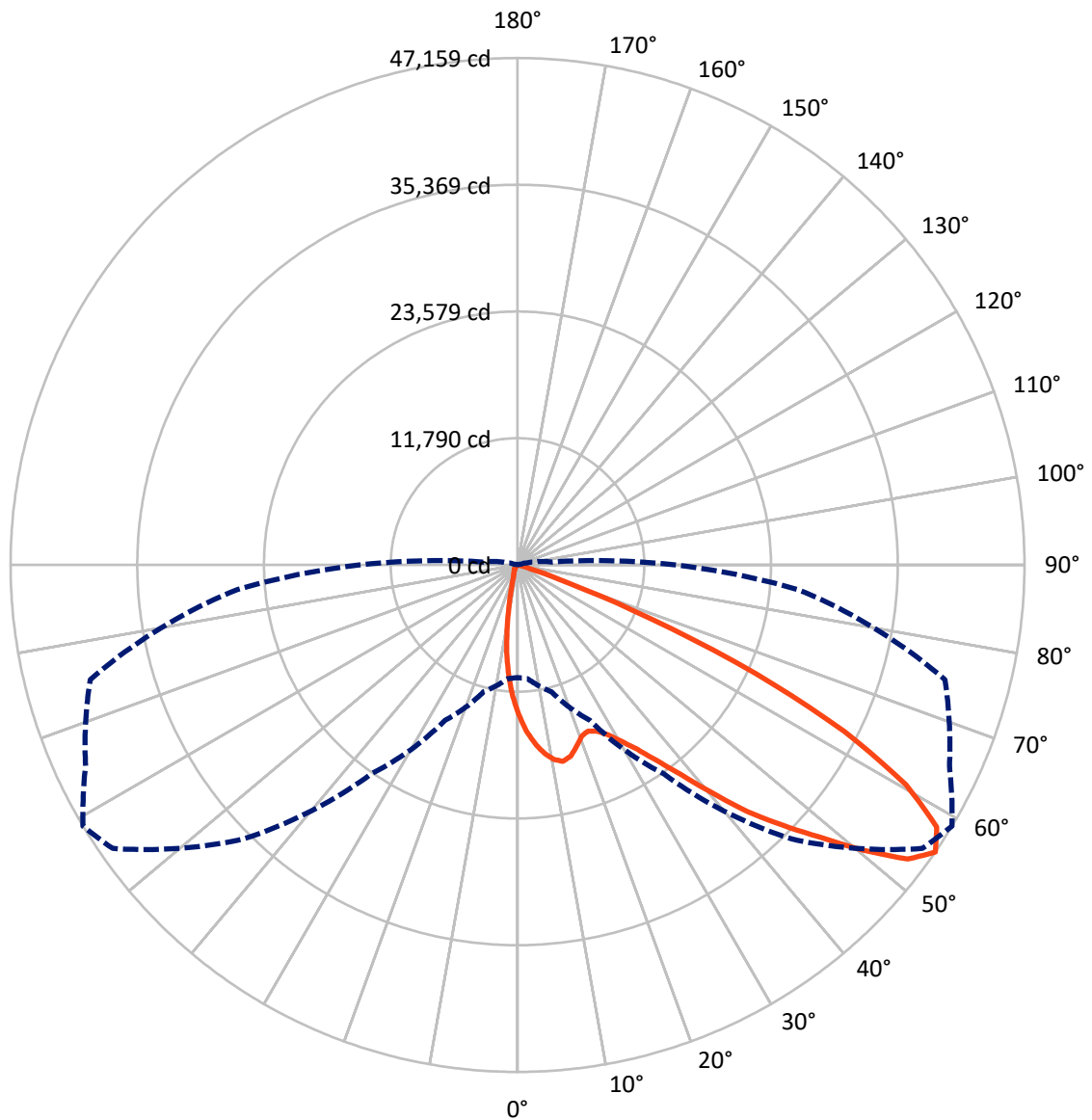


Based on 30 foot mounting height. Maximum calculated value = 19.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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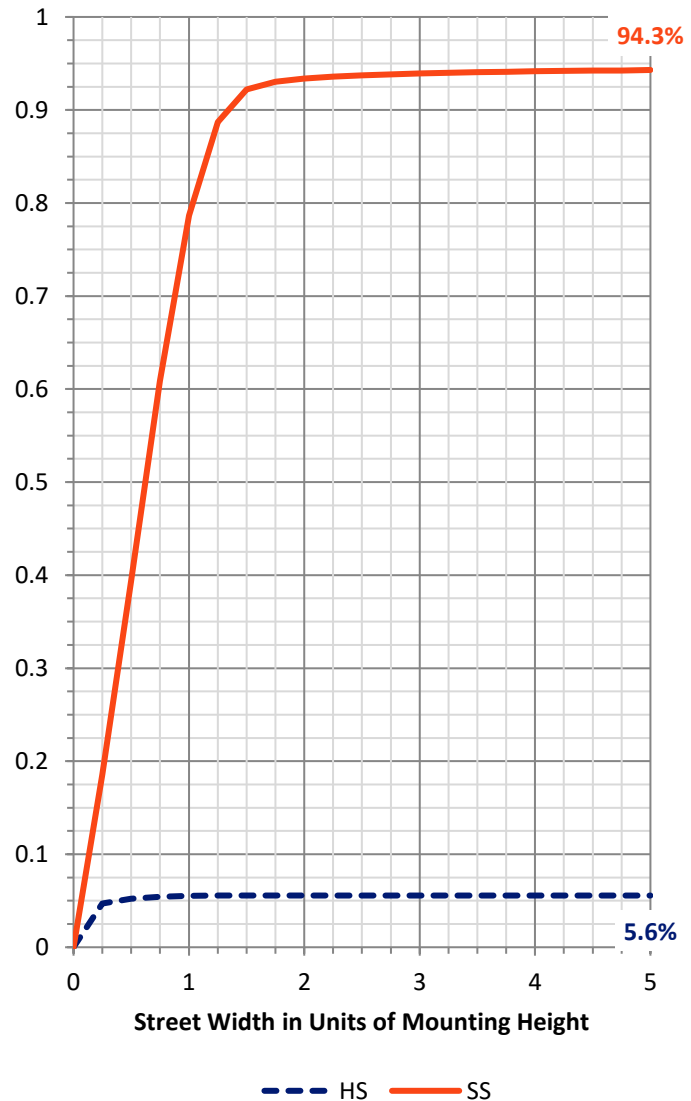
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2755.7	0.0	2755.7
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	46581.2	0.0	46581.2
	% Fixture	94.4	0.0	94.4
Total	Lumens	49336.9	0.0	49336.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1163.3	2.4
10°-20°	2785.2	5.6
20°-30°	4739.4	9.6
30°-40°	8150.7	16.5
40°-50°	12583.8	25.5
50°-60°	12650.7	25.6
60°-70°	6487.4	13.1
70°-80°	703.0	1.4
80°-90°	73.5	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°	49336.9	100.0
0°-180°	49336.9	100.0



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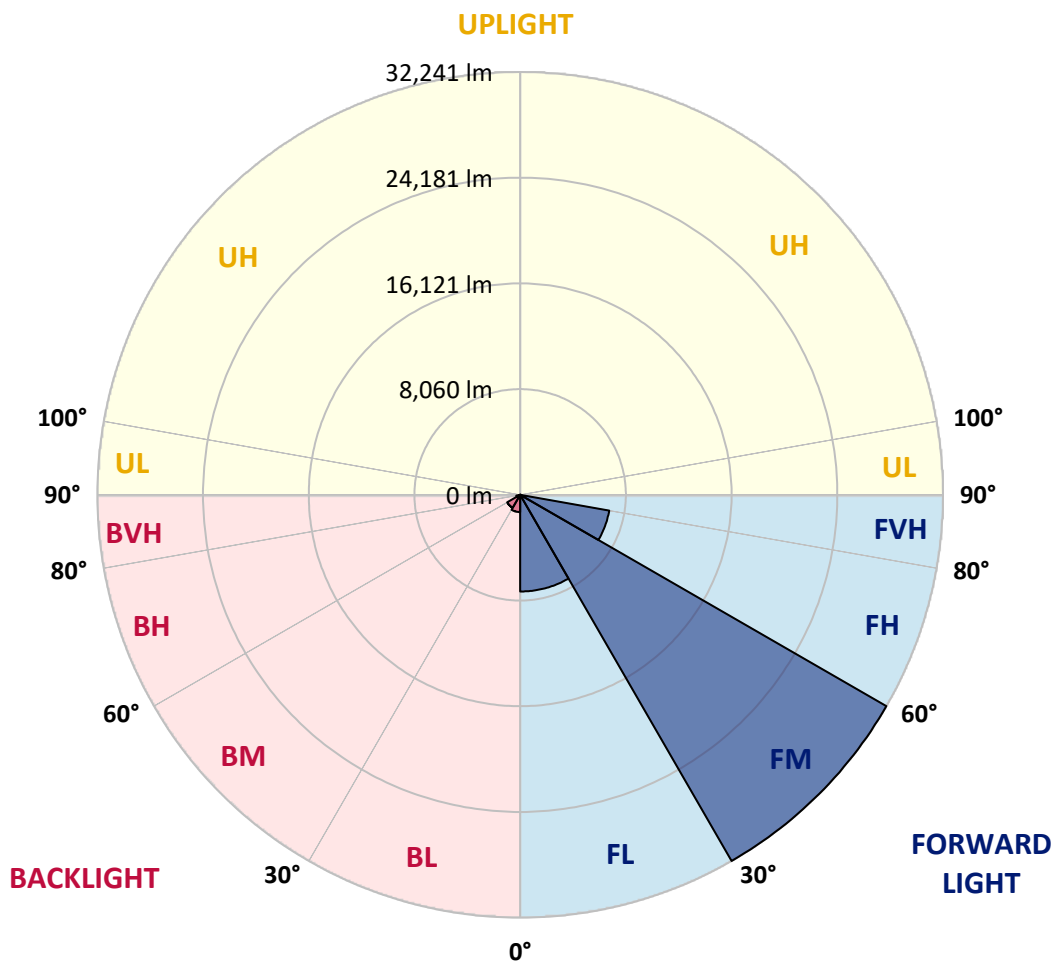
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7372.6	14.9			
FM	(30°-60°)	32241.5	65.3			
FH	(60°-80°)	6895.2	14.0			G3/7500
FVH	(80°-90°)	72.0	0.1			G1/100
BL	(0°-30°)	1315.3	2.7	B3/2500		
BM	(30°-60°)	1143.7	2.3	B2/2500		
BH	(60°-80°)	295.2	0.6	B1/500		G1/500
BVH	(80°-90°)	1.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	13888.2	13888.2	13888.2	13888.2	13888.2	13888.2	13888.2	13888.2	13888.2	13888.2	13888.2
2.5°	16432.9	16258.2	16205.8	16170.8	16010.7	15809.8	15536.1	15408.0	15145.9	14723.7	14205.5
5°	17938.2	17906.1	17789.6	17725.6	17553.8	17268.5	16831.7	16622.1	16205.8	15495.4	14566.5
7.5°	17280.1	17481.0	17641.2	17909.0	18246.8	18235.1	17868.3	17649.9	17184.0	16246.5	14968.3
10°	14738.4	14901.4	15163.4	15772.0	17012.3	18107.0	18537.9	18380.7	18008.0	16936.6	15355.6
12.5°	14240.5	14223.0	14269.6	14447.1	15096.5	16657.0	18424.4	18741.8	18666.1	17568.4	15722.4
15°	14505.4	14485.1	14479.3	14540.3	14697.6	15355.6	17571.3	18482.6	19067.8	18153.6	16034.0
17.5°	15247.9	15160.5	15113.9	15064.5	15017.8	15180.9	16546.4	17757.6	19129.0	18666.1	16293.2
20°	16520.2	16374.7	16202.8	15923.4	15661.3	15579.7	16115.5	17012.3	18910.6	19056.1	16461.9
22.5°	18118.7	17932.3	17635.4	17125.8	16593.0	16284.4	16328.0	16776.4	18584.6	19481.3	16540.6
25°	19915.1	19676.4	19280.4	18572.9	17789.6	17242.2	16956.9	17114.2	18436.0	19979.2	16630.8
27.5°	21839.7	21574.6	21056.4	20092.7	19204.7	18465.2	17882.8	17862.5	18689.3	20631.4	16776.4
30°	23746.7	23706.0	23030.5	22011.4	20835.2	19935.5	19097.0	18989.2	19396.9	21533.9	17064.7
32.5°	26291.5	25985.7	25158.9	24110.6	22753.9	21673.7	20680.9	20430.5	20482.9	22585.0	17510.2
35°	29500.0	29165.1	28000.5	26553.5	25036.5	23761.3	22663.6	22322.9	22194.9	24305.7	18261.3
37.5°	31573.0	31567.1	30836.3	29363.1	27735.6	26329.3	25135.5	24736.7	24477.6	26384.6	19425.9
40°	31628.3	31765.2	31861.2	31846.7	30687.9	29392.2	28332.5	27840.4	27237.7	29162.3	20931.2
42.5°	29930.9	30283.2	31130.4	32568.8	33255.9	32740.6	31846.7	31363.4	30466.6	32135.0	22765.6
45°	27636.6	27881.1	29363.1	32012.6	34647.7	36059.7	35378.4	34513.6	33331.6	35235.7	24410.6
47.5°	26608.8	26652.5	27610.4	30519.0	34752.4	38779.1	39192.6	37786.3	35934.5	37733.9	25697.4
50°	23537.1	23615.7	24937.6	27930.6	33523.7	40063.2	43024.2	41690.7	38773.3	39658.5	26166.3
52.5°	17740.1	17850.8	19527.8	23676.8	30146.4	39515.8	45766.9	45443.7	41882.9	40598.9	26192.5
55°	10467.0	10612.6	12214.0	15937.9	23711.8	36033.5	45970.7	47158.6	44337.3	41154.9	26151.6
57.5°	4888.5	4990.5	5907.5	8210.6	14747.1	28478.0	42901.9	45982.4	45691.2	41449.0	26439.9
60°	2597.1	2626.2	2847.5	3555.1	6664.5	18057.5	36912.8	41521.8	44456.7	41856.7	26792.2
62.5°	1985.6	1994.4	1982.8	2067.2	2800.9	8015.5	27901.5	34135.2	39486.6	41550.9	26402.1
65°	1720.7	1735.3	1653.8	1633.3	1796.4	2859.1	16575.6	24331.9	31028.6	37425.3	23743.8
67.5°	1543.1	1549.0	1449.9	1365.5	1394.6	1546.1	6539.4	13320.5	20538.2	27432.8	17210.2
70°	1420.9	1415.0	1307.3	1173.3	1135.5	1056.9	2078.8	4882.6	9814.9	13911.4	8003.9
72.5°	1257.8	1260.7	1208.3	1033.6	943.4	739.5	963.7	1423.7	2929.0	3790.9	1875.1
75°	1115.1	1100.6	1036.6	925.9	777.3	486.2	477.5	634.7	902.5	896.7	404.7
77.5°	806.5	792.0	812.3	760.0	596.9	314.5	238.8	305.8	366.8	355.2	113.5
80°	591.1	582.3	524.1	631.8	527.0	215.4	148.5	163.1	189.2	160.1	35.0
82.5°	404.7	401.8	369.8	349.3	299.9	131.0	93.2	101.9	122.2	90.2	17.5
85°	64.0	72.8	267.9	212.6	177.6	58.2	64.0	69.9	81.5	49.5	5.8
87.5°	0.0	0.0	125.2	110.7	35.0	23.3	37.8	40.7	40.7	26.2	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°	13888.2	13888.2	13888.2	13888.2	13888.2	13888.2	13888.2	13888.2	13888.2	13888.2	13888.2
2.5°	13940.6	13649.4	13110.8	12554.7	12039.3	11425.0	11002.8	10685.4	10318.6	10219.6	10435.0
5°	14036.6	13486.4	12327.6	11066.9	9881.8	8568.7	7564.2	6769.4	6050.2	5805.7	6026.9
7.5°	14188.0	13369.9	11480.3	9404.4	7342.9	5293.3	3889.9	2966.9	2378.8	2204.0	2297.2
10°	14339.4	13201.1	10499.1	7436.1	4617.7	2576.7	1677.0	1339.3	1214.1	1188.0	1202.5
12.5°	14464.6	12974.0	9302.4	5287.4	2469.0	1380.1	1097.6	1042.4	1024.9	1024.9	1030.7
15°	14540.3	12630.4	7884.5	3362.8	1420.9	1042.4	957.9	940.4	940.4	943.4	949.2
17.5°	14531.6	12193.7	6332.7	2035.2	1062.7	923.0	873.5	858.9	856.0	861.8	864.7
20°	14423.9	11623.0	4774.9	1342.2	925.9	841.5	792.0	765.8	762.8	768.6	774.5
22.5°	14220.0	10918.4	3415.2	1033.6	835.6	762.8	701.6	678.4	678.4	684.3	690.1
25°	13972.6	10056.5	2335.1	876.4	754.1	678.4	620.1	599.8	605.6	620.1	623.1
27.5°	13664.0	9087.0	1586.8	751.2	655.1	593.9	550.2	535.7	550.2	570.7	576.5
30°	13399.0	8076.7	1132.6	649.3	556.1	512.4	486.2	486.2	506.6	544.4	553.2
32.5°	13195.2	7098.4	873.5	573.6	483.3	445.5	430.9	445.5	477.5	515.4	524.1
35°	13169.0	6291.9	739.5	512.4	430.9	393.0	387.3	413.5	445.5	474.5	480.4
37.5°	13369.9	5546.5	666.8	463.0	384.3	349.3	343.6	375.6	407.6	442.5	451.3
40°	13751.3	4961.3	614.4	416.3	346.5	308.6	297.0	320.3	364.0	410.5	422.2
42.5°	14246.3	4478.0	556.1	369.8	308.6	256.2	241.6	267.9	314.5	364.0	378.5
45°	14717.9	4061.6	492.0	317.3	259.1	197.9	192.2	227.1	250.4	299.9	311.5
47.5°	14977.1	3694.8	436.7	259.1	200.9	160.1	160.1	168.9	192.2	250.4	262.1
50°	14889.8	3400.7	378.5	192.2	139.7	122.2	122.2	119.4	154.4	200.9	209.6
52.5°	14715.0	3231.8	326.1	148.5	96.1	87.4	78.6	87.4	107.7	128.1	131.0
55°	14688.9	3202.8	273.6	119.4	67.0	58.2	43.7	43.7	43.7	40.7	35.0
57.5°	14892.6	3249.3	230.1	96.1	49.5	37.8	23.3	0.0	0.0	0.0	0.0
60°	15102.3	3298.8	197.9	67.0	35.0	20.4	2.9	0.0	0.0	0.0	0.0
62.5°	14752.9	3188.1	165.9	40.7	26.2	8.7	0.0	0.0	0.0	0.0	0.0
65°	12959.4	2713.6	131.0	29.2	17.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9218.0	1816.9	87.4	17.5	2.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	4207.2	760.0	55.3	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	899.7	235.8	37.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	183.4	171.8	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	58.2	270.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	35.0	195.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.8	29.2	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)