

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: P459009

Luminaire Tested: **GALN-SA5B-735-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 21749 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

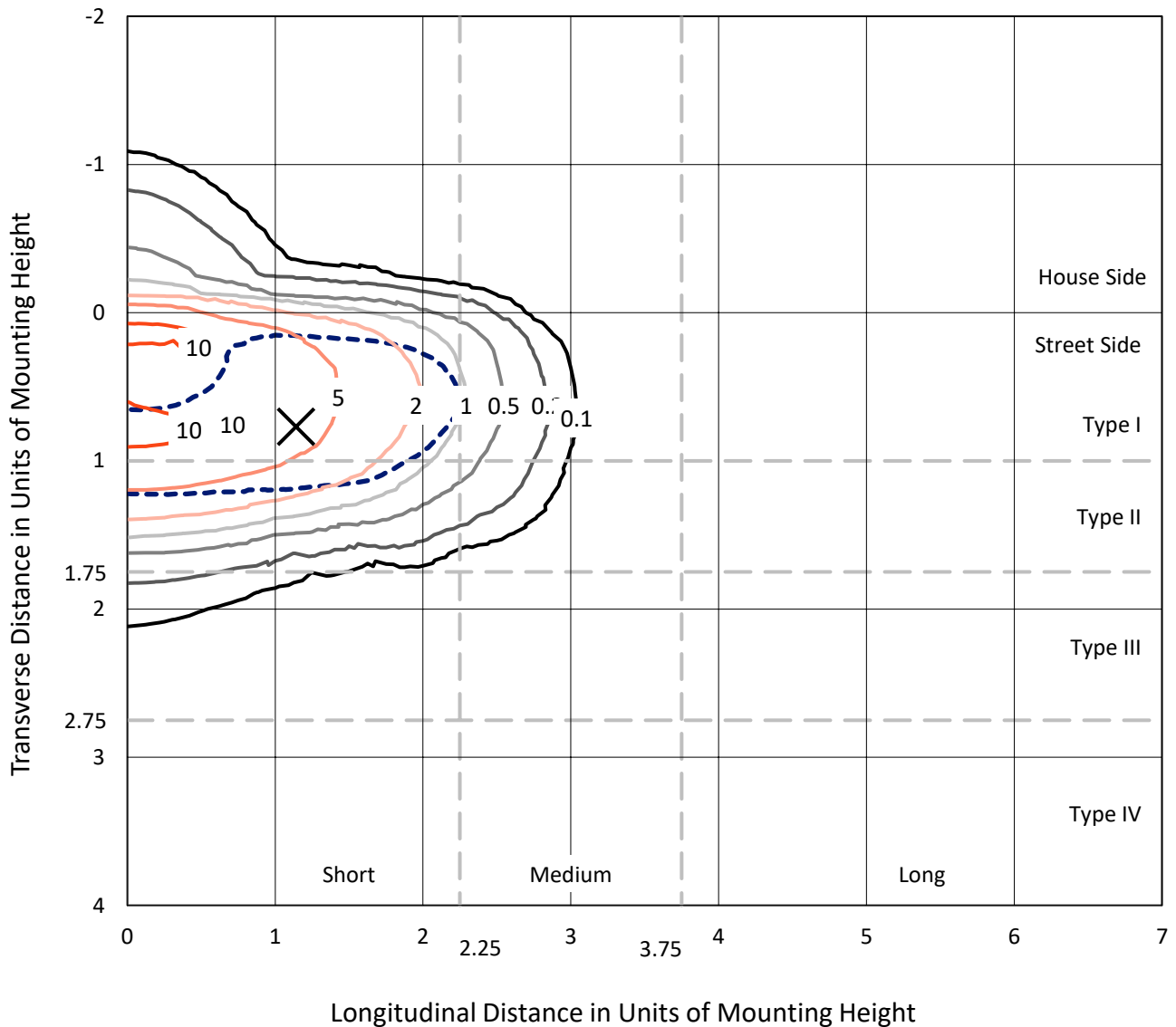
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

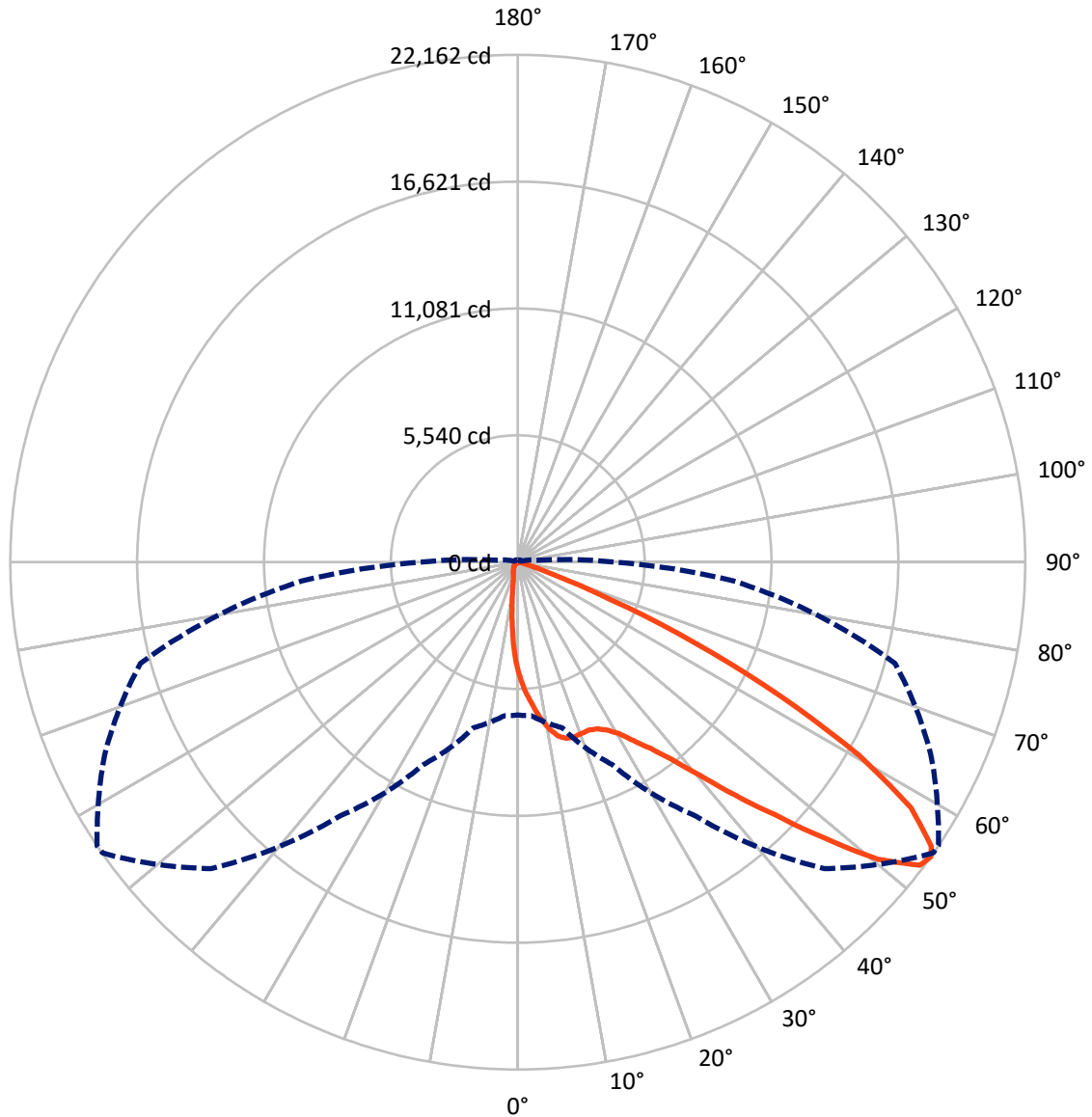
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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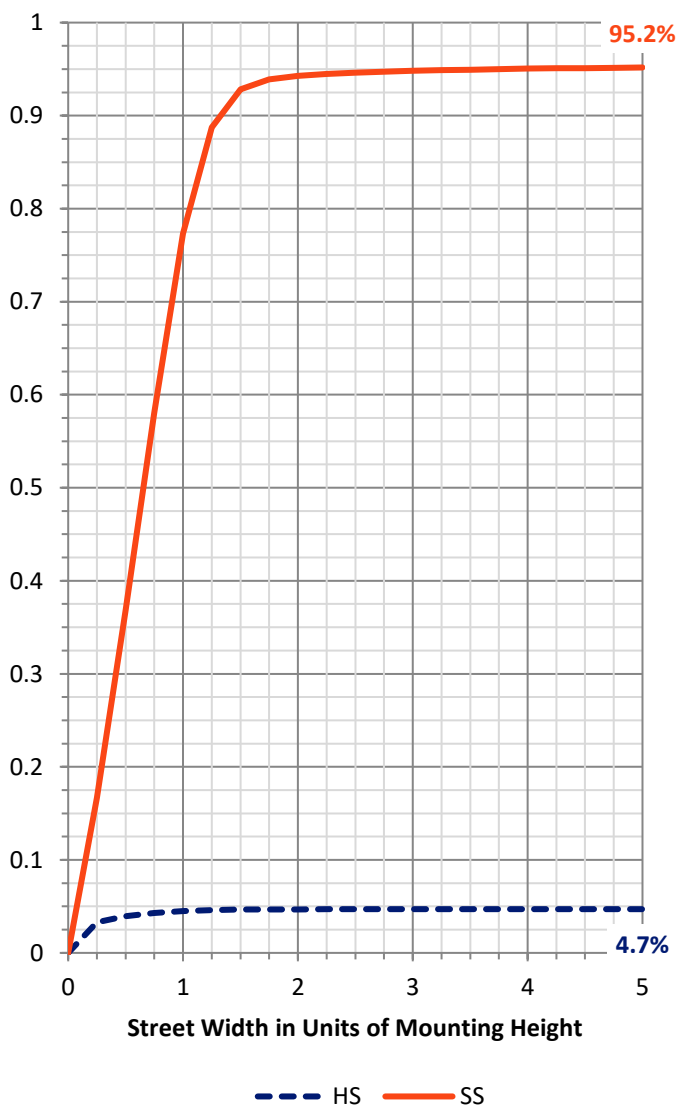
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1028.5	0.0	1028.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	20720.5	0.0	20720.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	21749.0	0.0	21749.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.0	2.0
10°-20°	1154.3	5.3
20°-30°	1999.1	9.2
30°-40°	3450.8	15.9
40°-50°	5873.4	27.0
50°-60°	5812.4	26.7
60°-70°	2652.9	12.2
70°-80°	340.7	1.6
80°-90°	38.4	0.2
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°	21749.0	100.0
0°-180°	21749.0	100.0

Coefficient of Utilization



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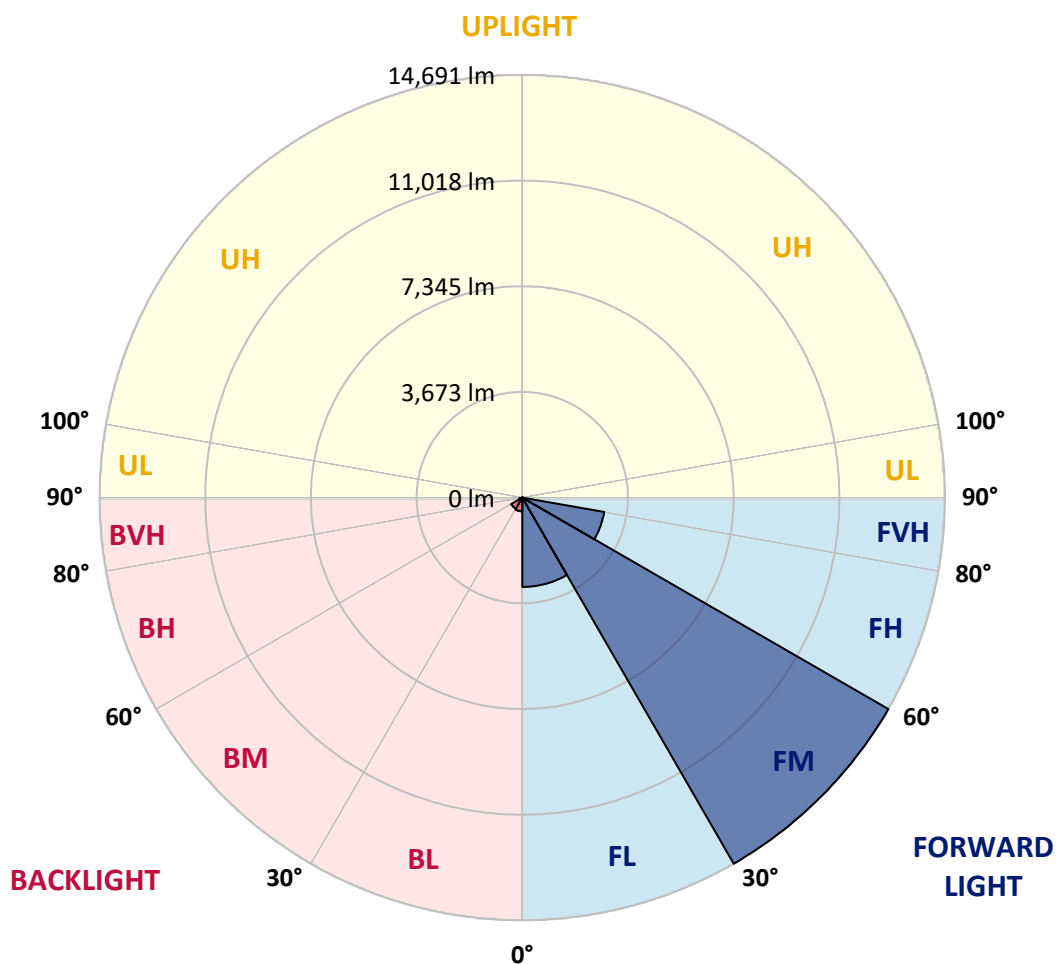
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3104.7	14.3			
FM	(30°-60°)	14690.9	67.5			
FH	(60°-80°)	2890.6	13.3			G2/5000
FVH	(80°-90°)	34.3	0.2			G1/100
BL	(0°-30°)	475.6	2.2	B1/500		
BM	(30°-60°)	445.7	2.0	B1/1000		
BH	(60°-80°)	103.0	0.5	B0/110		G0/110
BVH	(80°-90°)	4.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4832.0	4832.0	4832.0	4832.0	4832.0	4832.0	4832.0	4832.0	4832.0	4832.0	4832.0
2.5°	6140.9	6098.3	6039.6	5994.1	5887.0	5733.0	5570.1	5570.1	5413.1	5194.4	4971.4
5°	7082.9	7055.0	6997.8	6880.4	6760.1	6544.4	6217.2	6160.0	5879.7	5483.5	5066.8
7.5°	7465.9	7479.1	7482.0	7451.2	7394.0	7181.2	6857.0	6817.3	6369.8	5838.6	5191.5
10°	7099.1	7163.6	7226.7	7354.4	7534.9	7586.2	7402.8	7361.7	6921.5	6198.1	5326.5
12.5°	6553.2	6588.4	6623.6	6824.7	7187.1	7602.4	7794.6	7793.1	7420.4	6556.1	5498.2
15°	6299.4	6330.2	6333.1	6422.6	6736.6	7341.2	7961.9	7983.9	7907.6	6997.8	5683.1
17.5°	6352.2	6377.1	6356.6	6378.6	6542.9	7053.6	7942.8	8016.2	8302.3	7421.9	5850.3
20°	6697.0	6745.4	6666.2	6604.6	6654.5	6977.3	7878.2	7980.9	8581.1	7835.7	6003.0
22.5°	7316.2	7342.6	7242.9	7074.1	6986.1	7137.2	7860.6	7961.9	8818.8	8174.6	6091.0
25°	8004.4	7995.6	7885.6	7696.3	7511.4	7460.0	7976.5	8067.5	9015.4	8479.8	6117.4
27.5°	8692.6	8719.0	8534.1	8299.4	8077.8	7944.3	8236.3	8303.8	9237.0	8827.6	6149.7
30°	9492.3	9449.8	9267.8	8999.3	8745.4	8559.1	8654.5	8673.5	9542.2	9288.4	6234.8
32.5°	10532.7	10415.3	10211.3	9741.8	9559.8	9244.3	9267.8	9291.3	9913.5	9744.7	6337.5
35°	11944.3	11938.4	11539.3	10906.9	10463.7	10071.9	9969.2	9988.3	10475.5	10422.6	6564.9
37.5°	13643.5	13667.0	13212.1	12575.2	11759.4	11137.2	10925.9	10928.9	11329.5	11358.8	6911.2
40°	15027.2	15088.8	14817.4	14387.4	13581.8	12609.0	12253.9	12221.6	12529.8	12493.1	7405.7
42.5°	15622.9	15680.2	15781.4	15931.1	15487.9	14685.3	13847.4	13891.5	13985.4	13728.6	7960.4
45°	15330.9	15421.9	15819.6	16744.0	17160.7	16890.7	15891.5	15737.4	15339.7	15071.2	8518.0
47.5°	14114.5	14336.1	15000.8	16540.0	17998.6	18911.3	18198.1	17994.2	16695.6	16051.4	8873.1
50°	12114.5	12127.7	13053.6	15021.3	17564.2	20186.4	20553.3	20400.6	17959.0	16601.7	9052.1
52.5°	8782.1	9071.2	9919.3	12198.1	15683.1	19992.7	22054.4	21991.3	19262.0	16883.4	9310.4
54°	6676.5	6732.2	7486.4	9747.6	13521.7	18928.9	22146.8	22161.5	19909.1	17053.6	9463.0
55°	5473.2	5339.7	6132.1	8303.8	12047.0	17988.3	21844.5	21915.0	20199.6	17141.7	9576.0
57.5°	2594.3	2595.8	3201.8	4380.1	7545.1	13967.8	19997.1	20246.6	20231.9	17292.8	9923.7
60°	1313.3	1322.1	1455.6	2022.0	3727.1	9285.4	16534.2	17128.4	18675.0	17314.8	10038.2
62.5°	918.6	908.3	886.3	972.9	1568.6	4719.0	12309.6	12826.2	15866.5	16476.9	9674.3
65°	786.5	764.5	702.9	689.7	792.4	1879.7	7666.9	8509.2	12114.5	14267.1	8638.3
67.5°	672.0	663.2	607.5	573.7	560.5	818.8	3956.0	4399.1	8280.3	10255.3	6542.9
70°	570.8	566.4	532.7	490.1	453.4	490.1	1467.4	1818.1	4614.8	5521.7	3087.3
72.5°	463.7	468.1	474.0	419.7	381.5	347.8	626.6	729.3	1931.0	1973.6	1080.0
75°	406.5	402.1	402.1	365.4	318.4	258.3	344.8	371.2	591.3	548.8	250.9
77.5°	286.1	275.9	322.8	300.8	265.6	183.4	196.6	208.4	245.0	209.8	117.4
80°	198.1	198.1	206.9	270.0	239.2	133.5	120.3	129.1	145.3	124.7	67.5
82.5°	111.5	114.5	135.0	143.8	139.4	89.5	79.2	80.7	96.8	85.1	42.6
85°	13.2	22.0	77.8	76.3	57.2	39.6	44.0	45.5	60.2	52.8	24.9
87.5°	1.5	2.9	16.1	20.5	14.7	16.1	16.1	16.1	20.5	23.5	17.6
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°	4832.0	4832.0	4832.0	4832.0	4832.0	4832.0	4832.0	4832.0	4832.0	4832.0	4832.0
2.5°	4851.1	4739.6	4474.0	4165.8	3969.2	3649.3	3379.3	3184.2	3135.7	3041.8	3069.7
5°	4845.2	4613.4	4071.9	3499.6	2889.2	2434.3	2095.4	1828.3	1710.9	1633.2	1578.9
7.5°	4848.1	4485.7	3617.0	2705.8	1976.5	1530.5	1216.4	1053.6	945.0	899.5	905.4
10°	4856.9	4341.9	3088.8	2004.4	1333.8	989.0	796.8	719.0	682.3	676.5	675.0
12.5°	4877.5	4184.9	2584.0	1487.9	933.2	719.0	645.6	619.2	607.5	607.5	603.1
15°	4899.5	4011.8	2164.3	1106.4	719.0	617.8	584.0	570.8	563.5	563.5	562.0
17.5°	4899.5	3812.2	1772.6	858.4	619.2	567.9	541.5	523.8	518.0	518.0	516.5
20°	4868.7	3580.3	1424.8	691.1	562.0	520.9	494.5	475.4	468.1	465.2	463.7
22.5°	4761.6	3270.7	1134.3	594.3	515.0	479.8	446.1	424.1	418.2	415.3	416.7
25°	4570.8	2921.5	898.0	522.4	472.5	429.9	400.6	384.4	378.6	378.6	380.0
27.5°	4374.2	2556.1	711.7	468.1	421.1	383.0	359.5	349.2	347.8	352.2	353.6
30°	4192.2	2189.3	576.7	424.1	375.6	343.4	327.2	324.3	324.3	325.8	327.2
32.5°	3989.7	1867.9	482.8	385.9	339.0	311.1	302.3	302.3	305.2	305.2	308.1
35°	3862.1	1592.1	424.1	349.2	311.1	287.6	281.7	283.2	287.6	293.5	296.4
37.5°	3793.1	1372.0	385.9	319.9	284.7	268.5	262.7	265.6	275.9	286.1	287.6
40°	3799.0	1206.2	355.1	294.9	264.1	246.5	242.1	250.9	261.2	271.5	272.9
42.5°	3863.5	1082.9	325.8	265.6	246.5	221.6	220.1	228.9	233.3	243.6	245.0
45°	3939.9	993.4	294.9	234.8	214.2	192.2	193.7	201.0	206.9	223.0	226.0
47.5°	3963.3	931.8	259.7	199.6	176.1	168.7	170.2	174.6	186.4	201.0	202.5
50°	3989.7	893.6	226.0	168.7	149.7	148.2	149.7	152.6	159.9	165.8	164.3
52.5°	4102.7	892.2	198.1	146.7	127.7	130.6	132.1	130.6	124.7	115.9	113.0
54°	4208.4	896.6	184.9	136.5	117.4	121.8	120.3	113.0	98.3	89.5	85.1
55°	4293.5	901.0	177.6	129.1	111.5	113.0	114.5	99.8	80.7	71.9	69.0
57.5°	4460.8	890.7	159.9	113.0	98.3	92.4	91.0	66.0	44.0	38.2	35.2
60°	4377.1	804.1	145.3	96.8	83.6	74.8	61.6	36.7	22.0	16.1	16.1
62.5°	4048.4	682.3	129.1	79.2	69.0	57.2	32.3	20.5	10.3	5.9	4.4
65°	3621.4	573.7	115.9	63.1	54.3	36.7	17.6	13.2	4.4	0.0	0.0
67.5°	2692.6	425.5	98.3	49.9	41.1	23.5	11.7	7.3	1.5	0.0	0.0
70°	1247.3	259.7	83.6	38.2	29.3	17.6	8.8	4.4	0.0	0.0	0.0
72.5°	358.0	162.9	69.0	27.9	20.5	14.7	7.3	2.9	1.5	0.0	0.0
75°	124.7	130.6	51.4	20.5	16.1	10.3	5.9	2.9	1.5	0.0	0.0
77.5°	74.8	105.6	32.3	17.6	13.2	8.8	5.9	2.9	1.5	1.5	0.0
80°	42.6	70.4	20.5	14.7	11.7	7.3	4.4	2.9	1.5	1.5	0.0
82.5°	23.5	33.7	16.1	13.2	10.3	7.3	4.4	2.9	1.5	1.5	1.5
85°	19.1	17.6	13.2	11.7	8.8	5.9	4.4	1.5	0.0	0.0	0.0
87.5°	14.7	11.7	11.7	11.7	8.8	5.9	4.4	1.5	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)