

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: P534315

Luminaire Tested: **GALN-SA9D-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534315
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-740-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40934 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G2

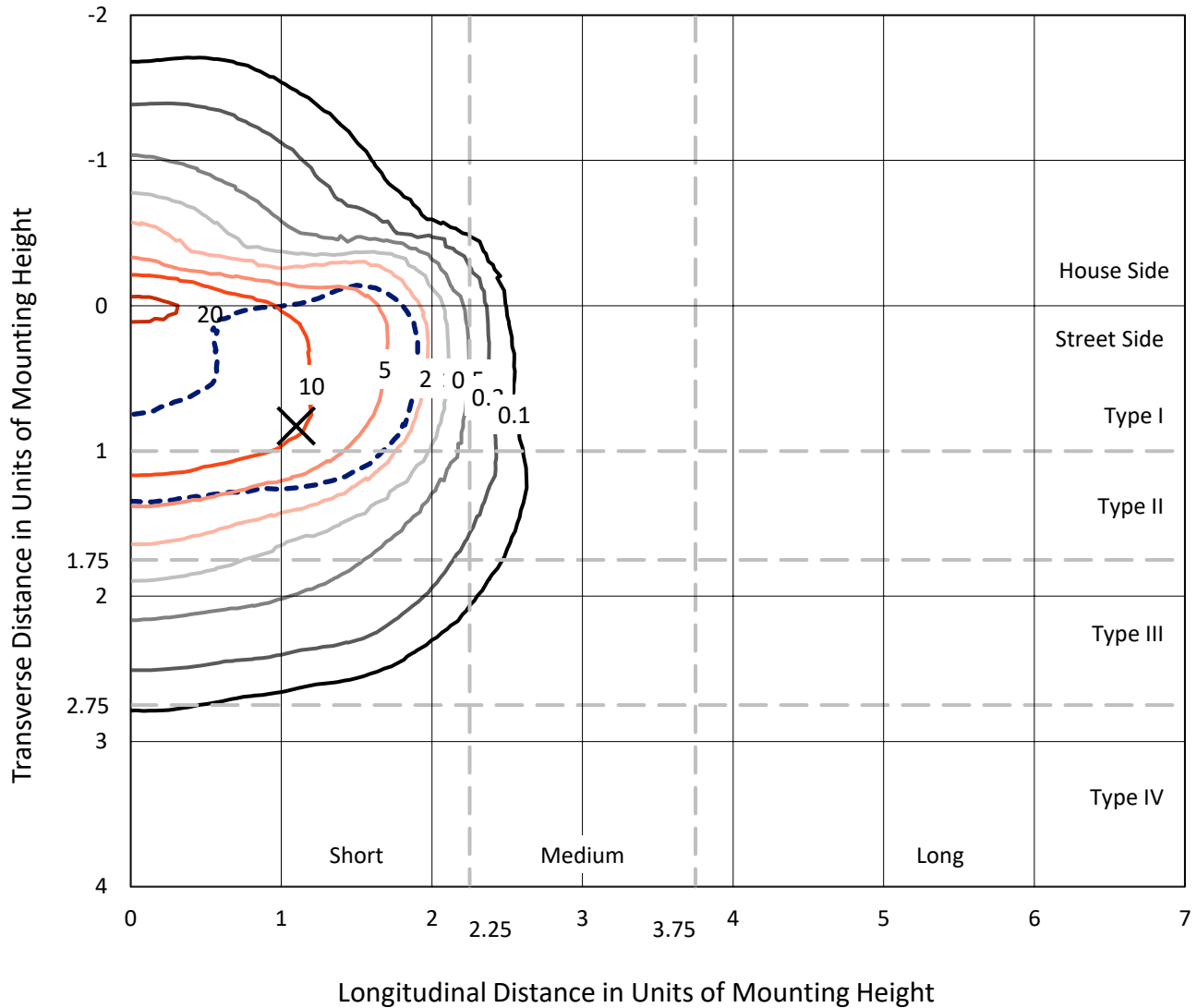
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

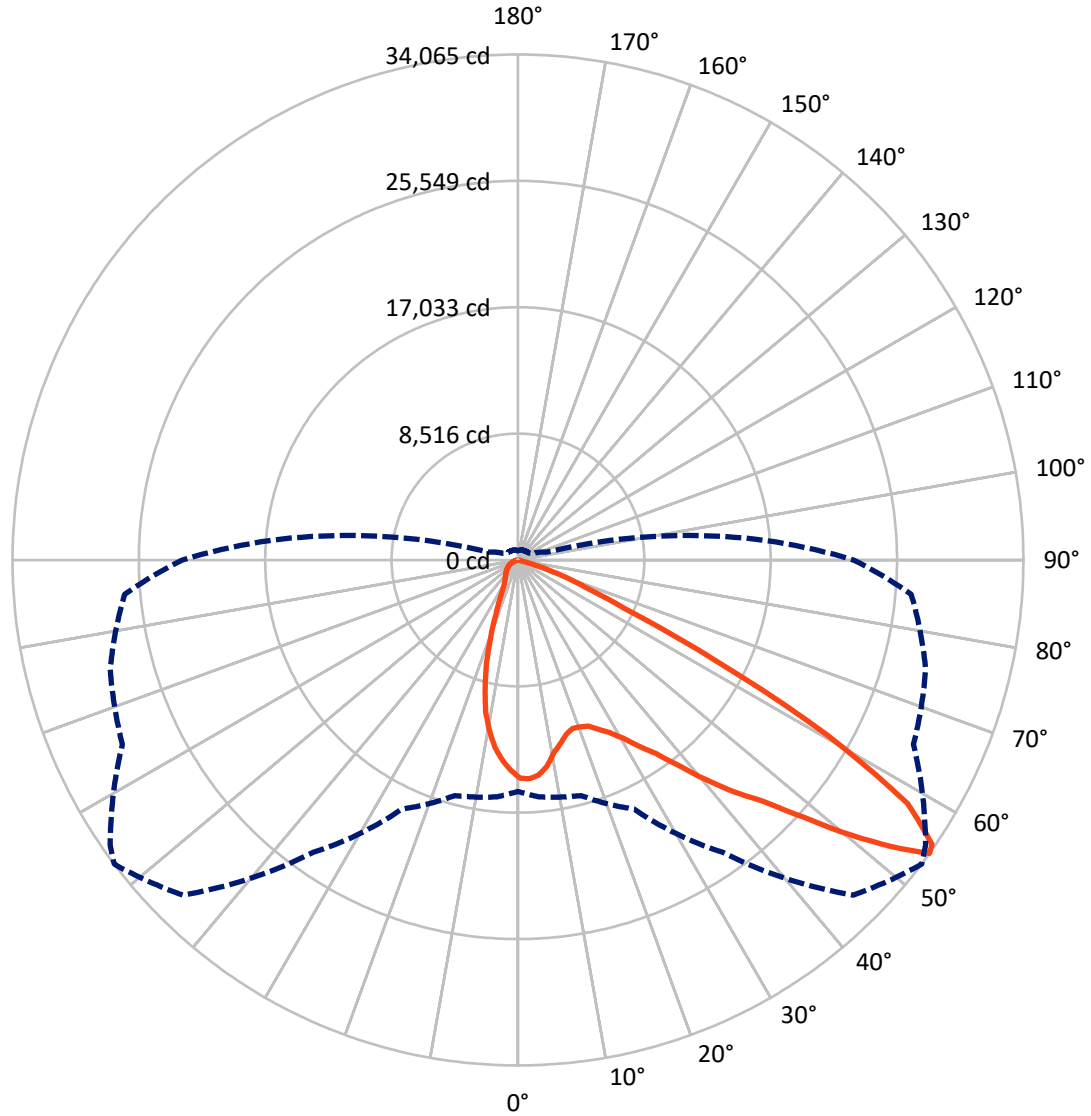
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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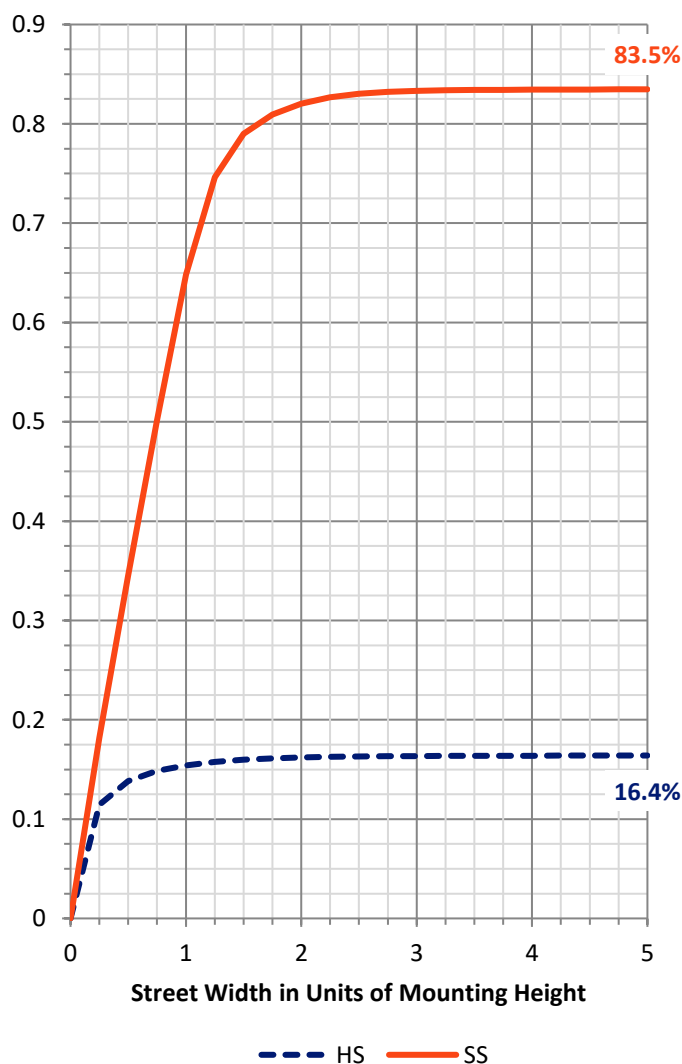
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6772.6	0.0	6772.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	34161.4	0.0	34161.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	40934.0	0.0	40934.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1261.5	3.1
10°-20°	2892.1	7.1
20°-30°	4110.4	10.0
30°-40°	6343.4	15.5
40°-50°	9945.8	24.3
50°-60°	11553.4	28.2
60°-70°	4365.6	10.7
70°-80°	415.1	1.0
80°-90°	46.7	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°	40934.0	100.0
0°-180°	40934.0	100.0

Coefficient of Utilization



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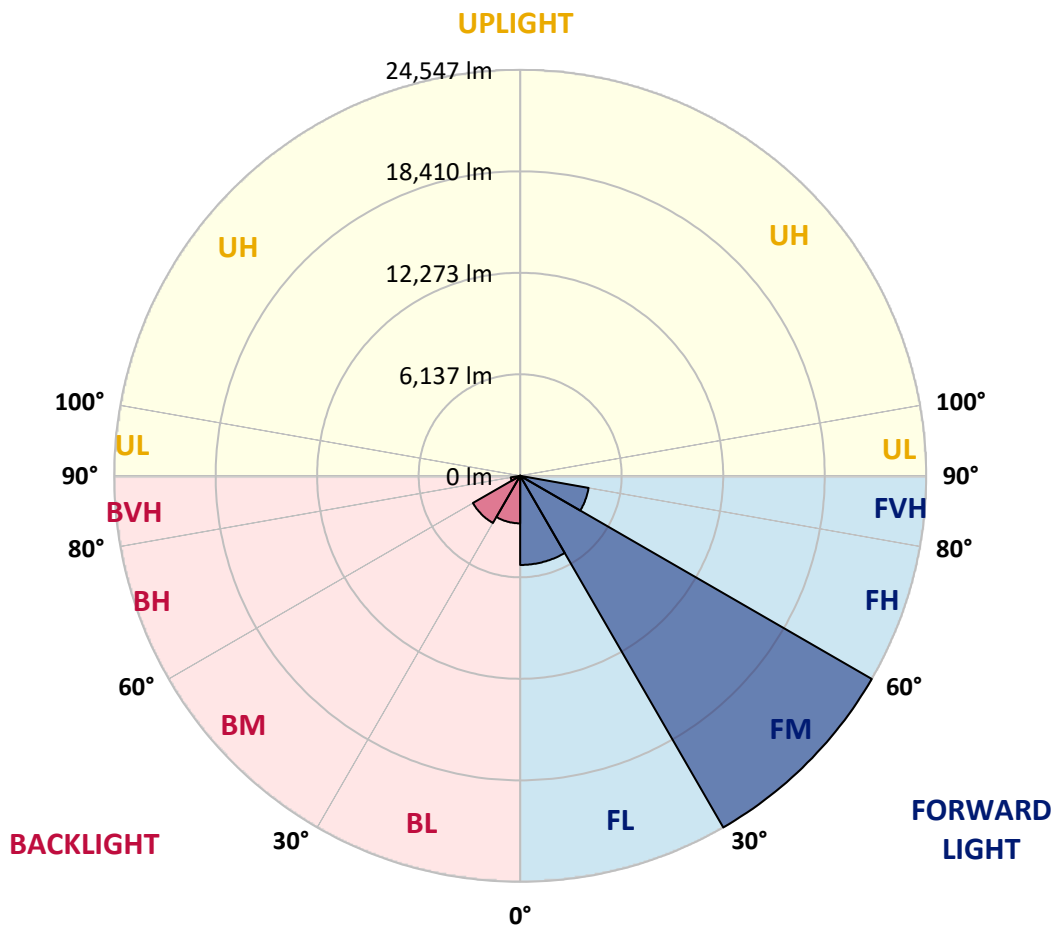
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5389.9	13.2			
FM (30°-60°)	24546.8	60.0			
FH (60°-80°)	4200.4	10.3			G2/5000
FVH (80°-90°)	24.1	0.1			G1/100
BL (0°-30°)	2874.0	7.0	B4/5000		
BM (30°-60°)	3295.8	8.1	B3/5000		
BH (60°-80°)	580.3	1.4	B2/1000		G2/1000
BVH (80°-90°)	22.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	14702.8	14702.8	14702.8	14702.8	14702.8	14702.8	14702.8	14702.8	14702.8	14702.8	14702.8
2.5°	14626.5	14496.9	14626.5	14641.8	14733.3	14817.2	14763.8	14885.8	14817.2	14740.9	14718.1
5°	13444.5	13619.9	13627.5	13902.1	13841.1	14344.4	14565.5	14504.5	14878.2	14855.3	14801.9
7.5°	12384.5	12315.9	12407.4	12727.7	13131.9	13711.4	14031.7	14024.1	14557.9	14939.2	14901.1
10°	11400.8	11393.1	11583.8	11835.5	12178.6	12788.7	13231.0	13452.1	14283.4	14862.9	14946.8
12.5°	10737.3	10706.8	10912.7	11118.6	11660.1	12132.9	12697.2	12803.9	13757.2	14596.0	14733.3
15°	10302.6	10371.3	10386.5	10783.1	11126.2	11751.6	12193.9	12415.0	13513.2	14382.5	14908.7
17.5°	10226.4	10317.9	10325.5	10653.4	11019.5	11545.7	11934.6	12232.0	13307.3	14489.3	14916.3
20°	10378.9	10325.5	10371.3	10577.2	10935.6	11438.9	12003.2	12102.4	13238.6	14542.7	15000.2
22.5°	10813.6	10798.3	10683.9	10851.7	11103.4	11629.6	12163.4	12315.9	13436.9	14817.2	15068.8
25°	11294.0	11377.9	11271.1	11248.3	11423.7	11942.2	12651.4	12849.7	14100.4	15312.9	15282.4
27.5°	12193.9	12110.0	12110.0	12003.2	11957.5	12209.1	13177.6	13505.5	14840.1	15953.5	15526.4
30°	13055.6	13147.1	13078.5	13116.6	12811.6	12788.7	13925.0	14329.1	16151.7	16929.6	16045.0
32.5°	14420.6	14298.6	14413.0	14313.9	13909.7	13497.9	14939.2	15358.6	17737.9	18050.6	16822.8
35°	15556.9	15503.5	15991.6	15976.3	15320.5	14916.3	16014.5	16639.8	18843.7	19392.8	17737.9
37.5°	17173.6	17074.5	17631.2	17898.1	17310.9	16708.4	17554.9	18279.4	19873.2	20468.0	18675.9
40°	18836.1	19087.7	19835.1	20277.4	19652.0	18851.3	19438.5	19659.7	20559.5	21169.6	19316.5
42.5°	20940.8	21306.9	22069.5	22450.8	22397.4	21528.0	21352.6	21345.0	21055.2	20971.3	19789.3
45°	22961.7	22824.4	23998.8	24830.0	25501.1	25249.5	23198.1	22969.3	21840.7	21268.7	19911.3
47.5°	23846.3	23800.5	24601.3	26080.7	28368.5	28681.1	25882.4	24997.8	23167.6	22519.4	20574.8
50°	22702.4	22938.8	23731.9	25371.5	28879.4	31266.3	29176.8	27987.2	24715.7	24044.6	22145.7
52.5°	18965.7	19125.8	19880.8	21962.7	27140.7	32791.5	32334.0	31647.6	27560.1	26446.7	24883.4
54°	15595.0	16022.1	16433.9	18523.4	24044.6	31945.0	34065.1	33538.9	29413.2	28444.7	26606.9
55°	13581.8	13833.4	14130.9	16212.7	21901.7	30511.4	33866.8	33912.5	30656.3	29070.1	27766.0
57.5°	9921.3	10096.7	9791.7	10714.4	15038.3	24776.7	30976.5	32211.9	32334.0	30008.1	28475.2
60°	7580.2	7656.4	7313.3	7458.2	9349.4	17005.8	23960.7	25447.7	29169.2	26225.6	24120.8
62.5°	5879.6	5894.8	5887.2	6138.9	6443.9	10005.2	14985.0	16304.2	20109.6	18622.5	16380.5
65°	4331.5	4262.9	4384.9	5147.5	5498.3	6291.4	7892.8	8853.7	10928.0	9227.4	6596.4
67.5°	2806.3	2829.2	2951.2	3828.2	4712.8	4827.2	4857.7	4781.5	4789.1	2638.6	1654.8
70°	1685.3	1723.5	1685.3	2165.8	3370.7	3462.2	3164.8	3088.5	2409.8	625.3	617.7
72.5°	999.0	945.6	846.5	930.4	1403.2	1677.7	1509.9	1502.3	945.6	366.0	366.0
75°	419.4	381.3	312.7	282.2	373.7	358.4	358.4	320.3	251.7	244.0	228.8
77.5°	83.9	83.9	61.0	68.6	91.5	106.8	129.6	129.6	152.5	152.5	144.9
80°	0.0	7.6	22.9	45.8	68.6	99.1	114.4	114.4	129.6	129.6	106.8
82.5°	0.0	7.6	22.9	45.8	61.0	91.5	114.4	114.4	129.6	137.3	114.4
85°	0.0	7.6	22.9	38.1	61.0	76.3	76.3	68.6	53.4	45.8	30.5
87.5°	0.0	0.0	7.6	15.3	7.6	15.3	15.3	15.3	15.3	15.3	15.3
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°	14702.8	14702.8	14702.8	14702.8	14702.8	14702.8	14702.8	14702.8	14702.8	14702.8	14702.8
2.5°	14771.4	14763.8	14580.8	14283.4	14214.7	13963.1	13932.6	13780.1	13863.9	13581.8	13551.3
5°	14649.4	14557.9	14336.8	14146.1	13589.4	13192.9	12880.2	12498.9	12277.8	12315.9	12171.0
7.5°	14824.8	14588.4	14199.5	13536.0	12857.3	12163.4	11789.7	11011.9	10729.7	10310.3	10249.3
10°	14641.8	14466.4	13863.9	12765.8	11827.8	10828.8	9951.8	9090.1	8434.3	8152.1	8091.1
12.5°	14626.5	14321.5	13314.9	12094.7	10737.3	9303.6	8030.1	6954.9	6306.6	5940.6	5856.7
15°	14390.1	14024.1	12697.2	11057.6	9181.6	7397.2	6009.2	4972.1	4476.4	4262.9	4323.9
17.5°	14413.0	13863.9	12079.5	9959.5	7648.8	5429.7	4102.8	3568.9	3439.3	3492.7	3492.7
20°	14390.1	13505.5	11332.1	8693.6	5856.7	3767.2	3012.2	2821.6	2905.5	3073.3	3035.1
22.5°	14268.1	13337.8	10645.8	7359.0	4308.7	2791.1	2417.4	2425.0	2554.7	2760.6	2806.3
25°	14359.6	12964.1	9776.4	6009.2	3141.9	2226.8	2097.1	2150.5	2287.8	2440.3	2470.8
27.5°	14291.0	12697.2	8869.0	4667.1	2295.4	1914.1	1906.5	1967.5	2028.5	2142.9	2142.9
30°	14367.3	12453.2	7976.7	3469.8	1891.2	1754.0	1723.5	1769.2	1830.2	1853.1	1845.5
32.5°	14649.4	12270.1	6947.2	2592.8	1670.1	1601.4	1601.4	1601.4	1593.8	1624.3	1632.0
35°	15267.1	12300.6	6039.7	2005.6	1525.2	1471.8	1448.9	1418.4	1403.2	1418.4	1426.0
37.5°	15938.2	12285.4	5101.8	1708.2	1418.4	1372.7	1319.3	1273.5	1265.9	1281.2	1258.3
40°	16235.6	12430.3	4232.4	1532.8	1319.3	1265.9	1182.0	1143.9	1151.5	1166.8	1151.5
42.5°	16639.8	12476.0	3668.1	1395.5	1227.8	1143.9	1090.5	1044.8	1037.1	1060.0	1052.4
45°	16632.2	12216.7	3073.3	1319.3	1143.9	1052.4	983.7	945.6	945.6	960.9	968.5
47.5°	17120.2	12178.6	2638.6	1250.7	1082.9	991.4	907.5	877.0	869.4	869.4	854.1
50°	18256.5	12712.4	2303.0	1174.4	1006.6	922.7	854.1	816.0	785.5	770.2	762.6
52.5°	20475.6	14374.9	2043.8	1082.9	922.7	854.1	793.1	762.6	724.5	686.3	678.7
54°	22626.1	16090.7	2028.5	1006.6	854.1	808.3	755.0	739.7	694.0	640.6	625.3
55°	23594.6	17089.7	2081.9	945.6	808.3	777.8	732.1	716.8	671.1	610.1	602.4
57.5°	24395.4	17478.6	2051.4	785.5	732.1	724.5	686.3	663.5	610.1	526.2	510.9
60°	19636.8	13215.7	1471.8	694.0	671.1	655.8	625.3	610.1	541.4	449.9	442.3
62.5°	12407.4	7603.1	938.0	610.1	587.2	564.3	526.2	510.9	449.9	358.4	335.5
65°	5284.8	3149.5	633.0	541.4	503.3	465.2	434.7	411.8	358.4	266.9	259.3
67.5°	1372.7	1121.0	526.2	472.8	419.4	366.0	343.2	305.0	244.0	183.0	175.4
70°	617.7	564.3	442.3	396.5	335.5	282.2	251.7	213.5	160.1	122.0	114.4
72.5°	366.0	358.4	335.5	297.4	251.7	213.5	183.0	144.9	106.8	68.6	68.6
75°	228.8	221.2	228.8	205.9	175.4	160.1	137.3	99.1	61.0	30.5	30.5
77.5°	137.3	137.3	137.3	129.6	122.0	122.0	99.1	61.0	30.5	7.6	7.6
80°	106.8	106.8	114.4	106.8	106.8	106.8	83.9	45.8	15.3	0.0	0.0
82.5°	106.8	114.4	129.6	122.0	106.8	91.5	76.3	45.8	15.3	0.0	0.0
85°	30.5	22.9	38.1	53.4	76.3	68.6	53.4	38.1	15.3	0.0	0.0
87.5°	15.3	15.3	15.3	15.3	7.6	7.6	7.6	7.6	7.6	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)