

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: P458342

Luminaire Tested: **GALN-SA9D-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458342
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-SA9D-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA 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: 52328 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

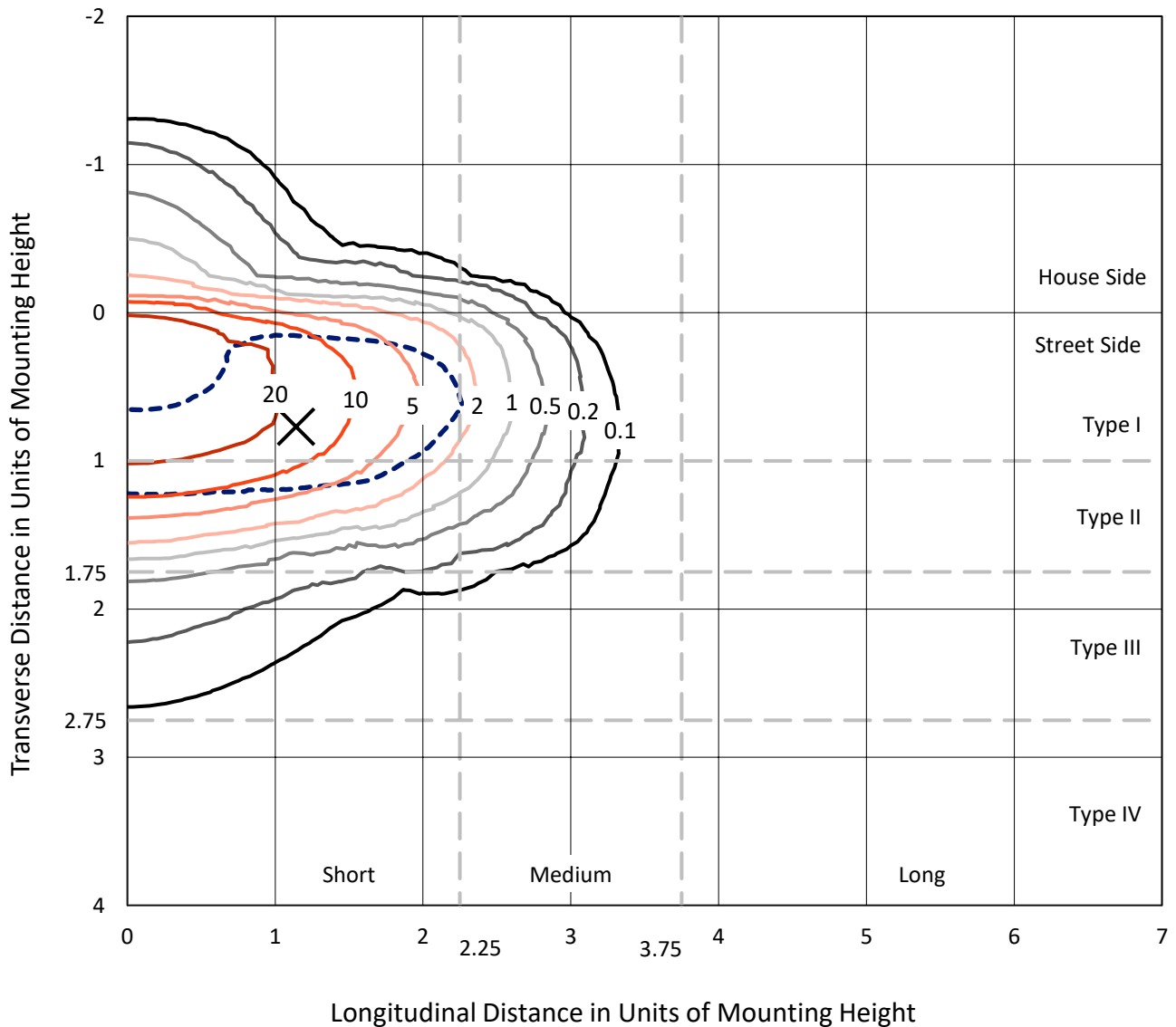
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

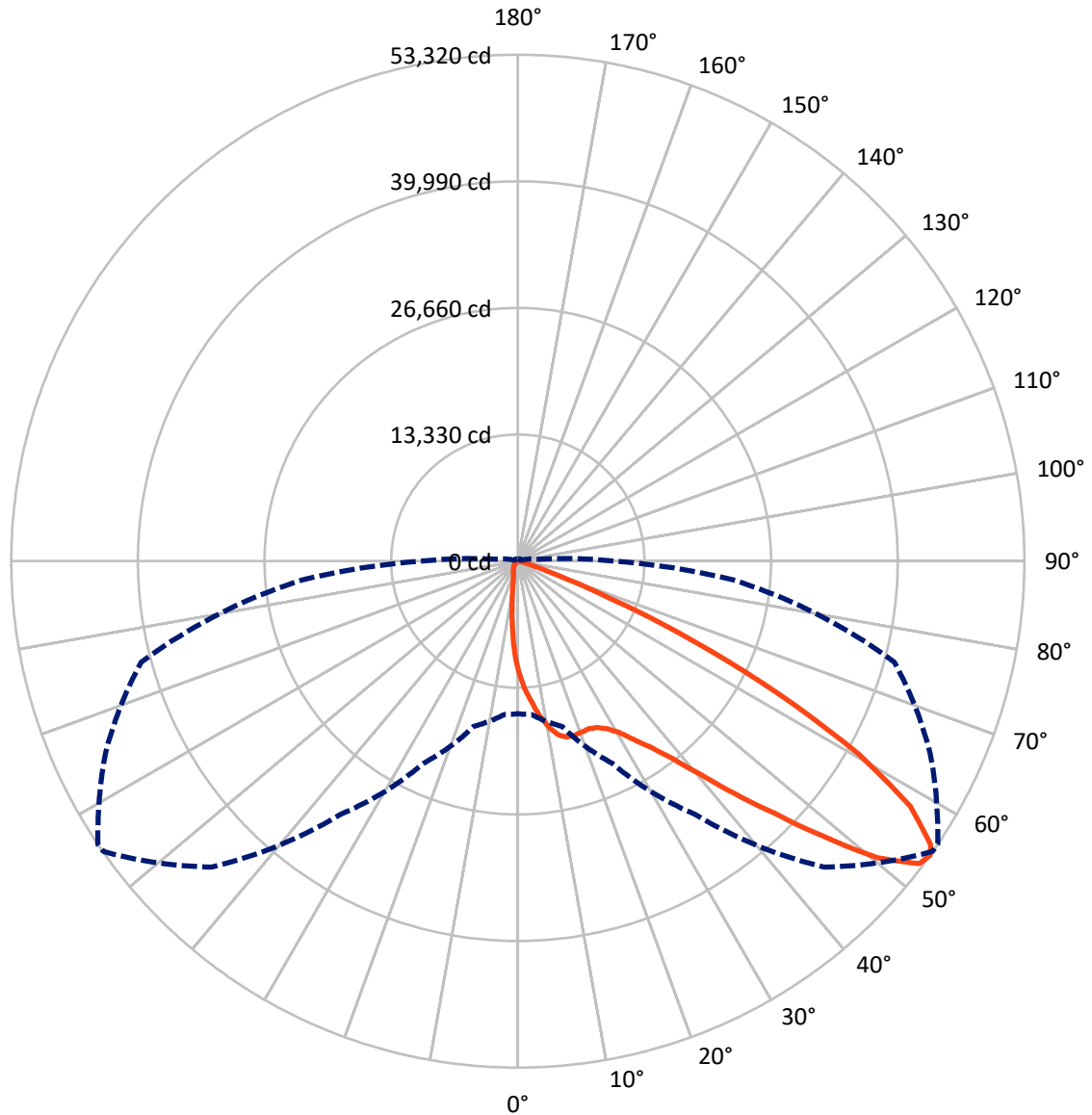
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.9 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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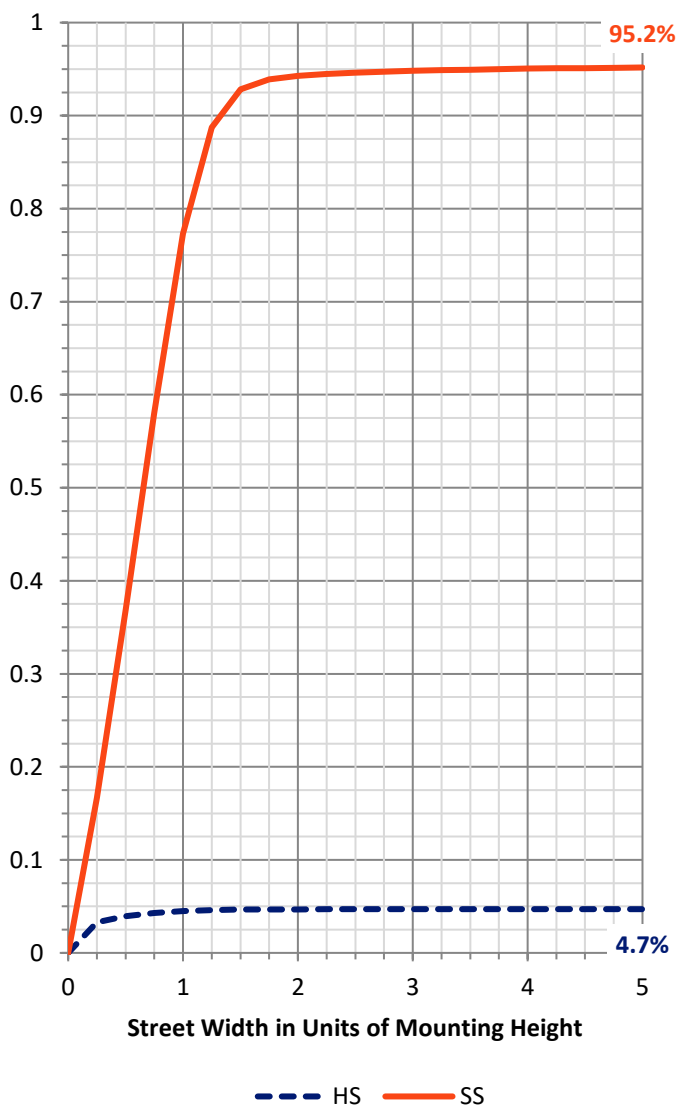
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2474.5	0.0	2474.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	49853.5	0.0	49853.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	52328.0	0.0	52328.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1027.3	2.0
10°-20°	2777.2	5.3
20°-30°	4809.9	9.2
30°-40°	8302.6	15.9
40°-50°	14131.3	27.0
50°-60°	13984.7	26.7
60°-70°	6382.9	12.2
70°-80°	819.7	1.6
80°-90°	92.4	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°	52328.0	100.0
0°-180°	52328.0	100.0

Coefficient of Utilization



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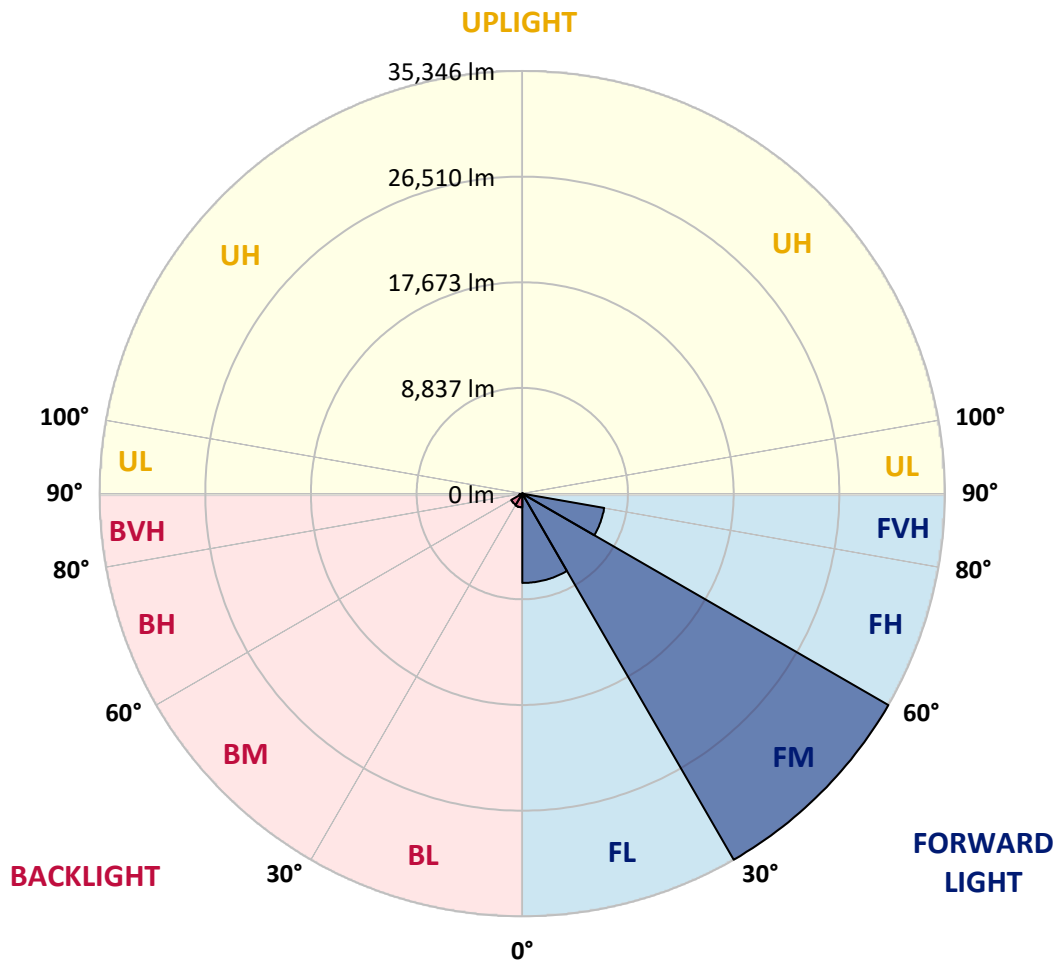
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7470.0	14.3			
FM (30°-60°)	35346.2	67.5			
FH (60°-80°)	6954.8	13.3			G3/7500
FVH (80°-90°)	82.5	0.2			G1/100
BL (0°-30°)	1144.4	2.2	B3/2500		
BM (30°-60°)	1072.4	2.0	B2/2500		
BH (60°-80°)	247.8	0.5	B1/500		G1/500
BVH (80°-90°)	9.9	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°	56°	65°	75°	85°
0°	11625.8	11625.8	11625.8	11625.8	11625.8	11625.8	11625.8	11625.8	11625.8	11625.8	11625.8
2.5°	14774.9	14672.6	14531.3	14421.9	14164.2	13793.5	13401.6	13401.6	13023.8	12497.8	11961.2
5°	17041.5	16974.4	16836.7	16554.3	16264.8	15745.8	14958.5	14820.8	14146.5	13193.3	12190.6
7.5°	17962.9	17994.7	18001.8	17927.6	17789.9	17278.0	16497.8	16402.5	15325.7	14047.7	12490.7
10°	17080.3	17235.7	17387.5	17694.6	18128.9	18252.4	17811.1	17712.3	16653.1	14912.6	12815.5
12.5°	15767.0	15851.7	15936.5	16420.1	17292.2	18291.3	18753.8	18750.2	17853.5	15774.1	13228.6
15°	15156.2	15230.4	15237.4	15452.8	16208.3	17662.8	19156.2	19209.2	19025.6	16836.7	13673.4
17.5°	15283.3	15343.3	15293.9	15346.9	15742.3	16970.9	19110.3	19286.9	19975.3	17857.0	14075.9
20°	16113.0	16229.5	16038.8	15890.6	16010.6	16787.3	18955.0	19202.1	20646.1	18852.6	14443.1
22.5°	17602.8	17666.4	17426.3	17020.3	16808.5	17172.1	18912.6	19156.2	21218.0	19668.1	14654.9
25°	19258.6	19237.4	18972.6	18517.2	18072.4	17948.8	19191.5	19410.4	21691.1	20402.5	14718.5
27.5°	20914.4	20977.9	20533.1	19968.2	19435.1	19113.9	19816.4	19978.8	22224.2	21239.2	14796.1
30°	22838.5	22736.1	22298.3	21652.3	21041.5	20593.1	20822.6	20868.5	22958.5	22347.8	15000.9
32.5°	25341.6	25059.1	24568.4	23438.7	23000.9	22241.8	22298.3	22354.8	23851.7	23445.7	15248.0
35°	28737.9	28723.8	27763.5	26241.8	25175.7	24233.0	23985.9	24031.8	25203.9	25076.8	15795.2
37.5°	32826.1	32882.6	31788.2	30256.0	28293.0	26796.1	26287.7	26294.8	27258.6	27329.2	16628.4
40°	36155.4	36303.6	35650.5	34616.1	32677.9	30337.2	29482.8	29405.1	30146.5	30058.3	17818.2
42.5°	37588.7	37726.4	37970.0	38330.1	37263.9	35332.8	33316.9	33422.8	33648.7	33030.9	19152.7
45°	36886.2	37105.0	38061.8	40286.0	41288.6	40639.0	38234.8	37864.1	36907.3	36261.3	20494.3
47.5°	33959.4	34492.5	36091.8	39795.3	43304.5	45500.5	43784.7	43293.9	40169.5	38619.6	21348.6
50°	29147.4	29179.2	31406.9	36141.2	42259.5	48568.4	49451.0	49083.9	43209.2	39943.5	21779.4
52.5°	21129.8	21825.3	23865.9	29348.6	37733.5	48102.4	53062.7	52910.9	46344.2	40621.4	22400.7
54°	16063.6	16197.7	18012.4	23452.8	32533.1	45542.8	53285.1	53320.4	47901.2	41030.9	22767.9
55°	13168.6	12847.3	14753.8	19978.8	28985.0	43279.8	52557.8	52727.3	48600.2	41242.7	23039.7
57.5°	6241.8	6245.4	7703.4	10538.4	18153.6	33606.4	48113.0	48713.2	48677.9	41606.4	23876.4
60°	3159.8	3180.9	3502.2	4865.0	8967.3	22340.7	39781.1	41211.0	44932.1	41659.3	24151.8
62.5°	2210.1	2185.3	2132.4	2340.7	3774.1	11353.9	29617.0	30859.7	38174.8	39643.4	23276.3
65°	1892.3	1839.4	1691.1	1659.3	1906.4	4522.5	18446.6	20473.1	29147.4	34326.6	20783.8
67.5°	1616.9	1595.8	1461.6	1380.4	1348.6	1970.0	9518.1	10584.3	19922.3	24674.3	15742.3
70°	1373.3	1362.8	1281.6	1179.2	1090.9	1179.2	3530.5	4374.2	11103.3	13285.1	7428.1
72.5°	1115.6	1126.2	1140.3	1009.7	917.9	836.7	1507.5	1754.6	4646.1	4748.5	2598.4
75°	977.9	967.3	967.3	879.1	766.1	621.4	829.7	893.2	1422.8	1320.4	603.7
77.5°	688.4	663.7	776.7	723.7	639.0	441.3	473.1	501.3	589.6	504.9	282.4
80°	476.6	476.6	497.8	649.6	575.5	321.3	289.5	310.7	349.5	300.1	162.4
82.5°	268.3	275.4	324.8	346.0	335.4	215.4	190.6	194.2	233.0	204.8	102.4
85°	31.8	53.0	187.1	183.6	137.7	95.3	105.9	109.4	144.7	127.1	60.0
87.5°	3.5	7.1	38.8	49.4	35.3	38.8	38.8	38.8	49.4	56.5	42.4
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°	11625.8	11625.8	11625.8	11625.8	11625.8	11625.8	11625.8	11625.8	11625.8	11625.8	11625.8
2.5°	11671.7	11403.4	10764.3	10023.0	9549.9	8780.2	8130.6	7661.1	7544.6	7318.6	7385.7
5°	11657.6	11099.7	9797.0	8420.1	6951.5	5857.0	5041.5	4398.9	4116.5	3929.4	3798.8
7.5°	11664.6	10792.6	8702.6	6510.2	4755.5	3682.3	2926.7	2534.9	2273.6	2164.2	2178.3
10°	11685.8	10446.6	7431.6	4822.6	3209.2	2379.5	1917.0	1729.9	1641.7	1627.5	1624.0
12.5°	11735.2	10068.8	6217.1	3579.9	2245.4	1729.9	1553.4	1489.9	1461.6	1461.6	1451.0
15°	11788.2	9652.3	5207.4	2662.0	1729.9	1486.3	1405.1	1373.3	1355.7	1355.7	1352.2
17.5°	11788.2	9172.1	4264.8	2065.3	1489.9	1366.3	1302.7	1260.4	1246.2	1246.2	1242.7
20°	11714.0	8614.3	3428.1	1662.8	1352.2	1253.3	1189.8	1143.9	1126.2	1119.2	1115.6
22.5°	11456.3	7869.4	2729.0	1429.8	1239.2	1154.5	1073.3	1020.3	1006.2	999.1	1002.6
25°	10997.4	7029.1	2160.6	1256.8	1136.8	1034.4	963.8	925.0	910.9	910.9	914.4
27.5°	10524.3	6150.0	1712.3	1126.2	1013.2	921.4	865.0	840.2	836.7	847.3	850.8
30°	10086.5	5267.4	1387.5	1020.3	903.8	826.1	787.3	780.2	780.2	783.8	787.3
32.5°	9599.3	4494.3	1161.5	928.5	815.5	748.5	727.3	727.3	734.3	734.3	741.4
35°	9292.1	3830.5	1020.3	840.2	748.5	692.0	677.8	681.4	692.0	706.1	713.2
37.5°	9126.2	3301.0	928.5	769.6	684.9	646.1	632.0	639.0	663.7	688.4	692.0
40°	9140.3	2902.0	854.4	709.6	635.5	593.1	582.5	603.7	628.4	653.1	656.7
42.5°	9295.7	2605.5	783.8	639.0	593.1	533.1	529.6	550.8	561.3	586.1	589.6
45°	9479.3	2390.1	709.6	564.9	515.4	462.5	466.0	483.7	497.8	536.6	543.7
47.5°	9535.7	2241.8	624.9	480.1	423.7	406.0	409.5	420.1	448.4	483.7	487.2
50°	9599.3	2150.0	543.7	406.0	360.1	356.6	360.1	367.2	384.8	398.9	395.4
52.5°	9871.1	2146.5	476.6	353.0	307.1	314.2	317.7	314.2	300.1	278.9	271.8
54°	10125.3	2157.1	444.8	328.3	282.4	293.0	289.5	271.8	236.5	215.4	204.8
55°	10330.1	2167.7	427.2	310.7	268.3	271.8	275.4	240.1	194.2	173.0	165.9
57.5°	10732.6	2143.0	384.8	271.8	236.5	222.4	218.9	158.9	105.9	91.8	84.7
60°	10531.3	1934.7	349.5	233.0	201.2	180.1	148.3	88.3	53.0	38.8	38.8
62.5°	9740.5	1641.7	310.7	190.6	165.9	137.7	77.7	49.4	24.7	14.1	10.6
65°	8713.2	1380.4	278.9	151.8	130.6	88.3	42.4	31.8	10.6	0.0	0.0
67.5°	6478.4	1023.8	236.5	120.0	98.9	56.5	28.2	17.7	3.5	0.0	0.0
70°	3000.9	624.9	201.2	91.8	70.6	42.4	21.2	10.6	0.0	0.0	0.0
72.5°	861.4	391.9	165.9	67.1	49.4	35.3	17.7	7.1	3.5	0.0	0.0
75°	300.1	314.2	123.6	49.4	38.8	24.7	14.1	7.1	3.5	0.0	0.0
77.5°	180.1	254.2	77.7	42.4	31.8	21.2	14.1	7.1	3.5	3.5	0.0
80°	102.4	169.5	49.4	35.3	28.2	17.7	10.6	7.1	3.5	3.5	0.0
82.5°	56.5	81.2	38.8	31.8	24.7	17.7	10.6	7.1	3.5	3.5	3.5
85°	45.9	42.4	31.8	28.2	21.2	14.1	10.6	3.5	0.0	0.0	0.0
87.5°	35.3	28.2	28.2	28.2	21.2	14.1	10.6	3.5	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)