

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: P952371

Luminaire Tested: **GALN-SB6B-730-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952371
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29114 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 220.4
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

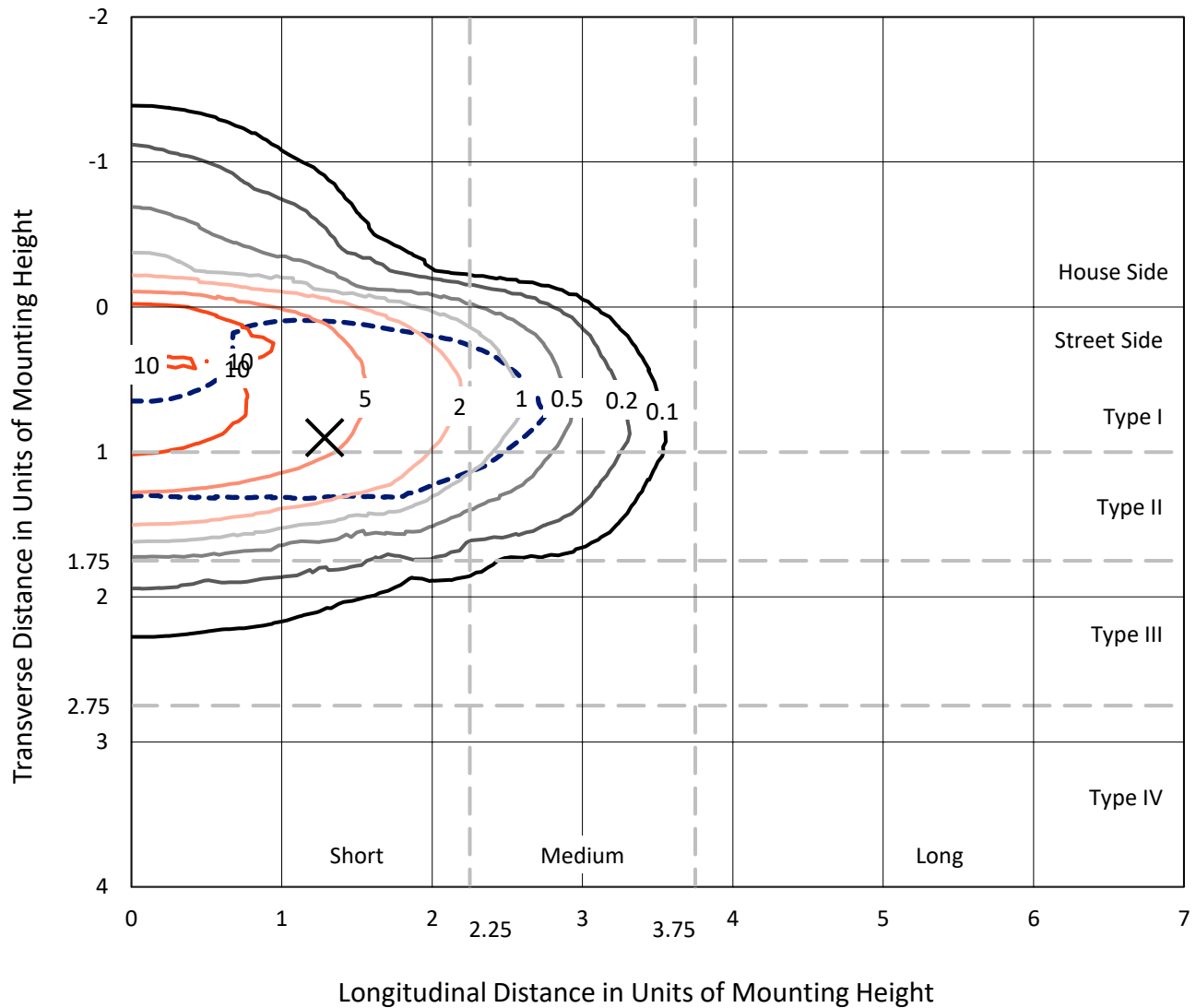


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

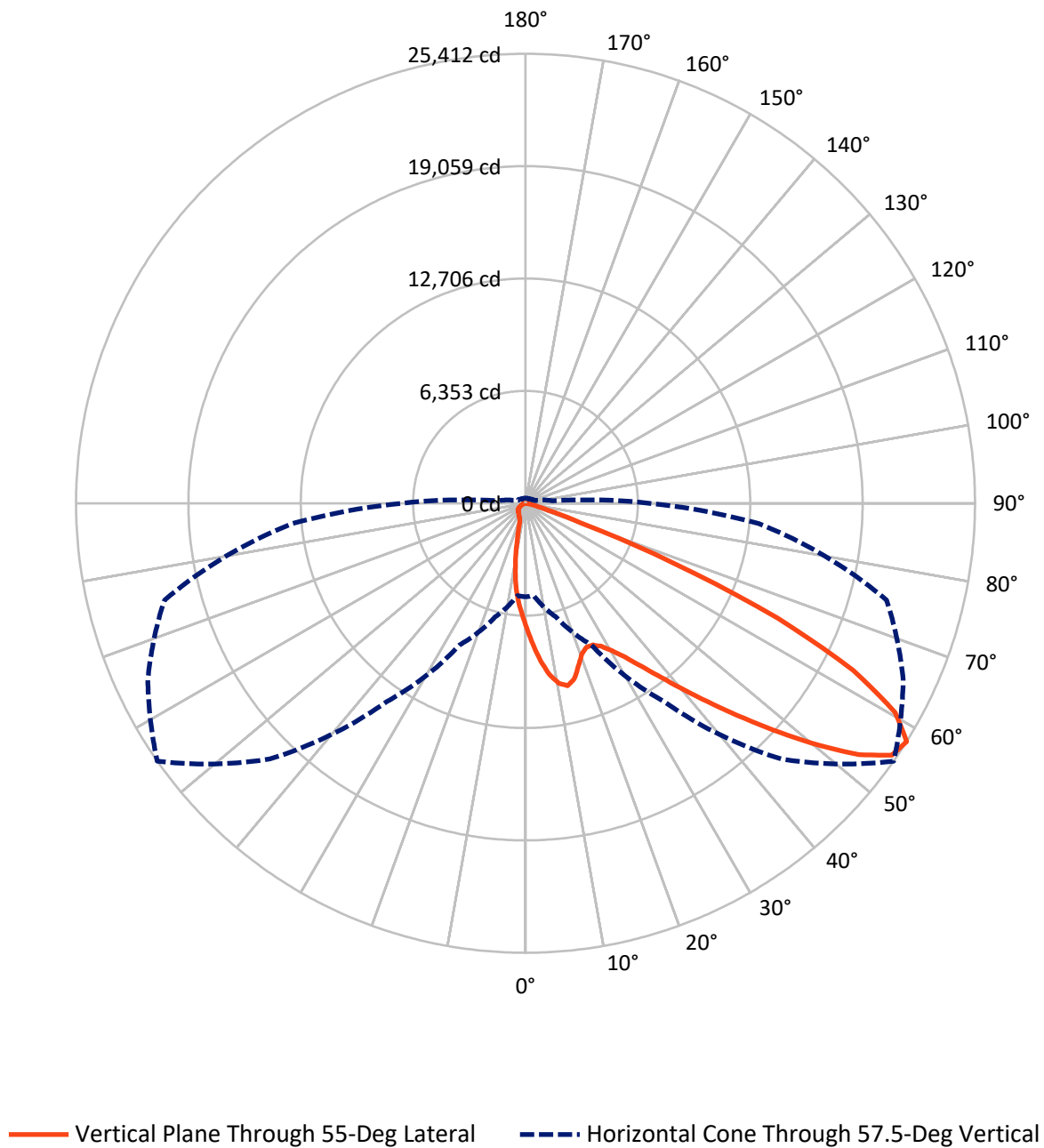


Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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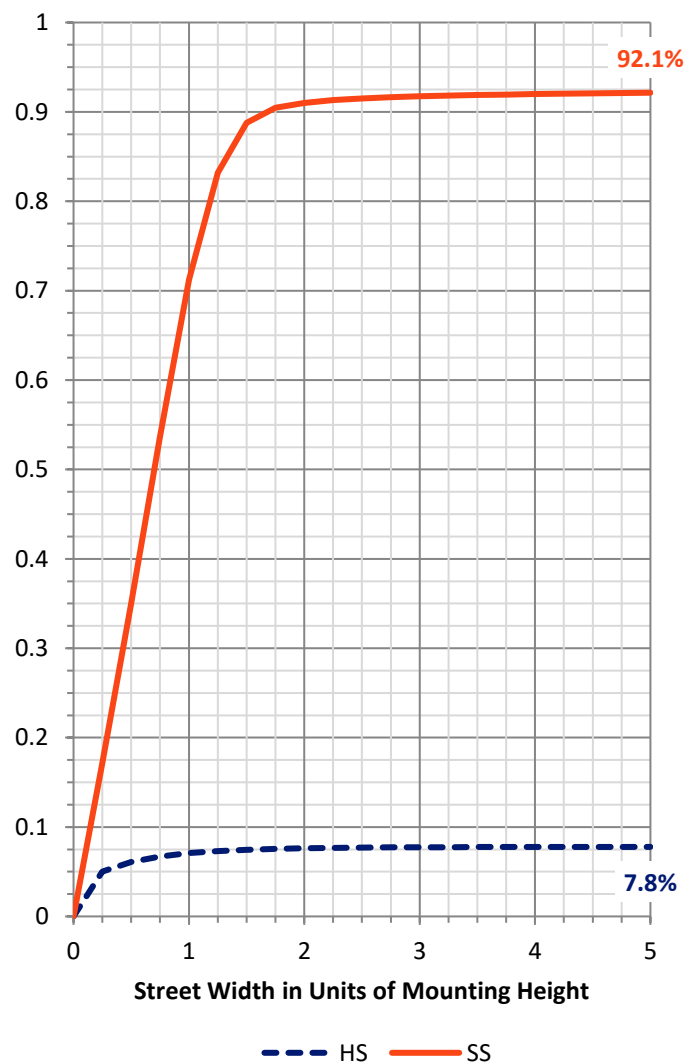
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2273.7	0.0	2273.7
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	26840.3	0.0	26840.3
	% Fixture	92.2	0.0	92.2
Total	Lumens	29114.0	0.0	29114.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.8	2.2
10°-20°	1576.8	5.4
20°-30°	2522.8	8.7
30°-40°	4270.1	14.7
40°-50°	7010.5	24.1
50°-60°	7705.1	26.5
60°-70°	4419.6	15.2
70°-80°	903.1	3.1
80°-90°	53.3	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°	29114.0	100.0
0°-180°	29114.0	100.0

Coefficient of Utilization



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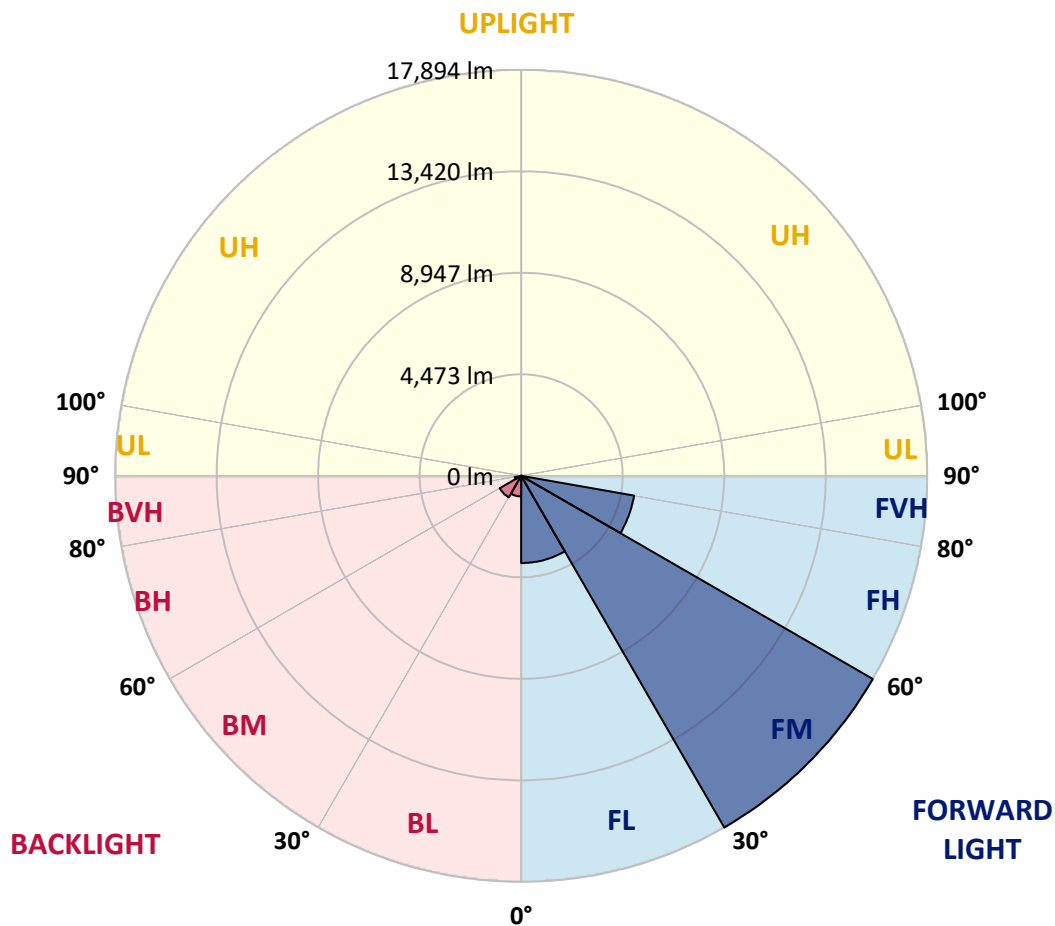
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3844.7	13.2			
FM	(30°-60°)	17893.7	61.5			
FH	(60°-80°)	5052.3	17.4			G3/7500
FVH	(80°-90°)	49.7	0.2			G1/100
BL	(0°-30°)	907.7	3.1	B2/1000		
BM	(30°-60°)	1092.0	3.8	B2/2500		
BH	(60°-80°)	270.4	0.9	B1/500		G1/500
BVH	(80°-90°)	3.6	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7015.8	7015.8	7015.8	7015.8	7015.8	7015.8	7015.8	7015.8	7015.8	7015.8	7015.8
2.5°	8705.1	8595.6	8579.4	8557.9	8349.6	8193.4	7967.2	7719.5	7441.2	7157.6	7031.9
5°	10056.9	9970.7	9954.5	9854.0	9617.0	9351.3	8949.2	8441.2	7922.3	7312.0	7049.9
7.5°	10319.0	10302.8	10376.4	10372.8	10340.5	10130.5	9791.2	9186.2	8407.1	7502.3	7096.5
10°	9150.3	9191.6	9410.6	9602.7	10121.5	10423.1	10349.5	9850.4	8906.1	7719.5	7148.6
12.5°	8085.7	8037.2	8193.4	8410.6	9013.8	9911.5	10581.1	10405.1	9477.0	7965.4	7225.8
15°	7417.9	7398.1	7486.1	7586.6	8046.2	8951.0	10311.8	10855.8	10026.4	8256.3	7342.5
17.5°	7204.3	7188.1	7215.0	7240.2	7538.2	8238.3	9670.9	11132.2	10552.4	8588.4	7471.7
20°	7378.4	7356.9	7353.3	7333.5	7457.4	7934.9	9091.0	11152.0	11024.5	8890.0	7583.0
22.5°	7886.4	7861.3	7773.3	7694.4	7705.1	7976.2	8832.5	10954.5	11380.0	9171.8	7653.1
25°	8807.4	8766.1	8583.0	8317.3	8148.5	8263.4	8872.0	10694.2	11719.3	9392.6	7619.0
27.5°	9959.9	9906.1	9670.9	9276.0	8890.0	8749.9	9157.5	10514.7	12001.1	9561.4	7545.3
30°	11089.1	11019.1	10787.5	10480.5	9916.8	9475.2	9672.7	10593.6	12336.8	9737.3	7448.4
32.5°	12308.1	12241.7	11934.7	11554.1	11087.3	10493.1	10378.2	10979.6	12747.9	9983.3	7380.2
35°	13850.2	13746.1	13309.8	12791.0	12295.5	11694.1	11333.3	11645.7	13295.5	10358.5	7417.9
37.5°	15605.9	15465.9	14995.6	14279.3	13633.0	12959.8	12496.6	12561.2	14097.9	10861.1	7534.6
40°	17261.1	17133.7	16699.2	16024.2	15212.8	14395.9	13902.3	13758.6	15205.6	11473.3	7739.2
42.5°	18253.9	18139.0	17955.9	17670.4	16986.5	16153.5	15530.5	15220.0	16516.1	12205.8	7988.8
45°	18309.5	18209.0	18455.0	18787.1	18652.4	18097.7	17338.3	16769.2	17832.0	12893.3	8247.3
47.5°	17419.1	17350.9	18097.7	19257.4	19835.5	20068.9	19368.7	18189.3	18918.1	13387.0	8353.2
50°	14992.0	14966.8	16503.5	18632.7	20286.1	21795.9	21510.4	19510.6	19760.1	13641.9	8252.7
52.5°	12999.3	12907.7	13803.5	16632.8	19630.8	22704.3	23603.7	20806.7	20348.9	13690.4	8017.5
55°	9859.4	9778.6	10902.4	13286.5	17517.8	22381.1	25135.0	22144.2	20770.8	13566.5	7595.6
57.5°	5288.7	5238.5	6658.5	8843.3	13694.0	20442.3	25411.5	23558.8	21126.3	13238.0	7005.0
60°	2059.1	2050.2	2581.5	4290.6	8322.7	16631.0	24016.6	24407.9	21348.9	12834.1	6511.3
62.5°	1245.9	1272.8	1359.0	1926.3	3676.6	10331.5	20801.3	23442.1	21497.9	12464.3	6103.8
65°	1030.5	1032.3	1043.0	1323.1	1761.1	4322.9	15659.8	20264.5	21129.8	11805.4	5525.7
67.5°	883.3	899.4	940.7	1050.2	1242.3	1895.8	9015.6	15697.5	18891.2	10272.3	4624.5
70°	696.5	718.1	770.2	863.5	958.7	1186.6	3331.9	10444.6	14431.8	7742.8	3497.1
72.5°	587.0	585.2	612.2	701.9	761.2	834.8	1281.8	5852.4	8387.3	3696.4	1730.6
75°	454.2	472.1	506.3	587.0	622.9	605.0	694.8	2138.1	3005.2	1120.2	588.8
77.5°	355.5	369.8	400.3	479.3	515.2	429.1	400.3	764.8	965.8	402.1	265.7
80°	159.8	172.3	272.9	353.7	420.1	296.2	217.2	391.4	429.1	183.1	134.6
82.5°	28.7	48.5	159.8	186.7	215.4	192.1	113.1	202.9	210.0	73.6	46.7
85°	1.8	3.6	55.7	68.2	86.2	62.8	34.1	80.8	70.0	25.1	18.0
87.5°	0.0	0.0	0.0	1.8	1.8	9.0	10.8	14.4	10.8	9.0	7.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7015.8	7015.8	7015.8	7015.8	7015.8	7015.8	7015.8	7015.8	7015.8	7015.8
2.5°	6902.7	6647.7	6400.0	6197.1	6078.6	5877.6	5744.7	5723.2	5667.5	5716.0
5°	6769.8	6313.8	5852.4	5439.5	5100.2	4662.2	4335.5	4197.2	4077.0	4118.3
7.5°	6707.0	5987.1	5269.0	4563.5	3838.2	3138.1	2617.4	2400.2	2235.1	2258.4
10°	6622.6	5647.8	4522.2	3445.0	2473.8	1782.7	1423.6	1290.8	1217.2	1219.0
12.5°	6558.0	5242.1	3655.1	2335.6	1506.2	1138.2	1026.9	994.6	973.0	974.8
15°	6525.7	4764.5	2798.8	1556.5	1077.1	964.0	937.1	922.7	908.4	906.6
17.5°	6471.8	4233.2	2048.4	1136.4	942.5	903.0	879.7	863.5	845.6	842.0
20°	6391.0	3630.0	1497.2	960.4	883.3	852.7	820.4	798.9	777.3	773.7
22.5°	6242.0	2992.6	1150.7	888.6	840.2	806.1	766.6	741.4	719.9	716.3
25°	5965.5	2394.8	969.4	843.8	802.5	761.2	718.1	684.0	664.2	660.6
27.5°	5615.5	1881.4	879.7	802.5	754.0	716.3	667.8	635.5	617.6	614.0
30°	5202.6	1448.8	827.6	755.8	696.5	664.2	621.1	594.2	583.4	583.4
32.5°	4757.4	1157.9	806.1	709.1	646.3	610.4	576.3	565.5	561.9	560.1
35°	4339.1	1005.3	795.3	671.4	601.4	567.3	552.9	554.7	561.9	561.9
37.5°	3967.5	956.9	789.9	644.5	561.9	531.4	540.4	556.5	549.3	549.3
40°	3631.7	962.2	786.3	624.7	529.6	511.6	529.6	517.0	499.1	497.3
42.5°	3375.0	1007.1	779.1	608.6	509.8	497.3	490.1	470.4	468.6	472.1
45°	3188.3	1046.6	777.3	601.4	488.3	465.0	456.0	436.2	472.1	481.1
47.5°	2967.5	1046.6	777.3	576.3	452.4	443.4	429.1	407.5	443.4	452.4
50°	2682.1	980.2	746.8	547.5	423.7	418.3	393.2	366.2	359.0	364.4
52.5°	2321.2	859.9	669.6	508.0	395.0	384.2	353.7	333.9	328.5	328.5
55°	1910.1	719.9	565.5	450.6	364.4	344.7	323.1	314.2	308.8	305.2
57.5°	1552.9	590.6	454.2	400.3	335.7	310.6	303.4	292.6	283.6	278.3
60°	1274.6	465.0	375.2	355.5	307.0	283.6	281.9	267.5	244.2	240.6
62.5°	983.8	341.1	316.0	308.8	278.3	258.5	254.9	226.2	190.3	183.1
65°	694.8	265.7	254.9	271.1	247.7	229.8	220.8	177.7	140.0	134.6
67.5°	488.3	222.6	201.1	237.0	215.4	192.1	186.7	150.8	116.7	113.1
70°	348.3	181.3	165.2	202.9	172.3	168.8	158.0	125.7	95.1	91.6
72.5°	245.9	138.2	127.5	175.9	118.5	145.4	129.3	96.9	71.8	68.2
75°	181.3	98.7	89.8	102.3	86.2	109.5	91.6	64.6	44.9	43.1
77.5°	132.8	62.8	53.9	50.3	50.3	68.2	50.3	26.9	19.7	18.0
80°	93.4	28.7	25.1	21.5	19.7	16.2	7.2	3.6	1.8	1.8
82.5°	55.7	12.6	12.6	9.0	5.4	0.0	0.0	0.0	0.0	0.0
85°	12.6	5.4	5.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	1.8	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

(END OF REPORT)