

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: P534595

Luminaire Tested: **GALN-SA5A-AMB-U-SL2-HSS**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-5)
Test Lab: INNOVATION CENTER
Issue Date: 6/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-AMB-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4275 lumens
Efficiency: N/A
Efficacy: 42.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

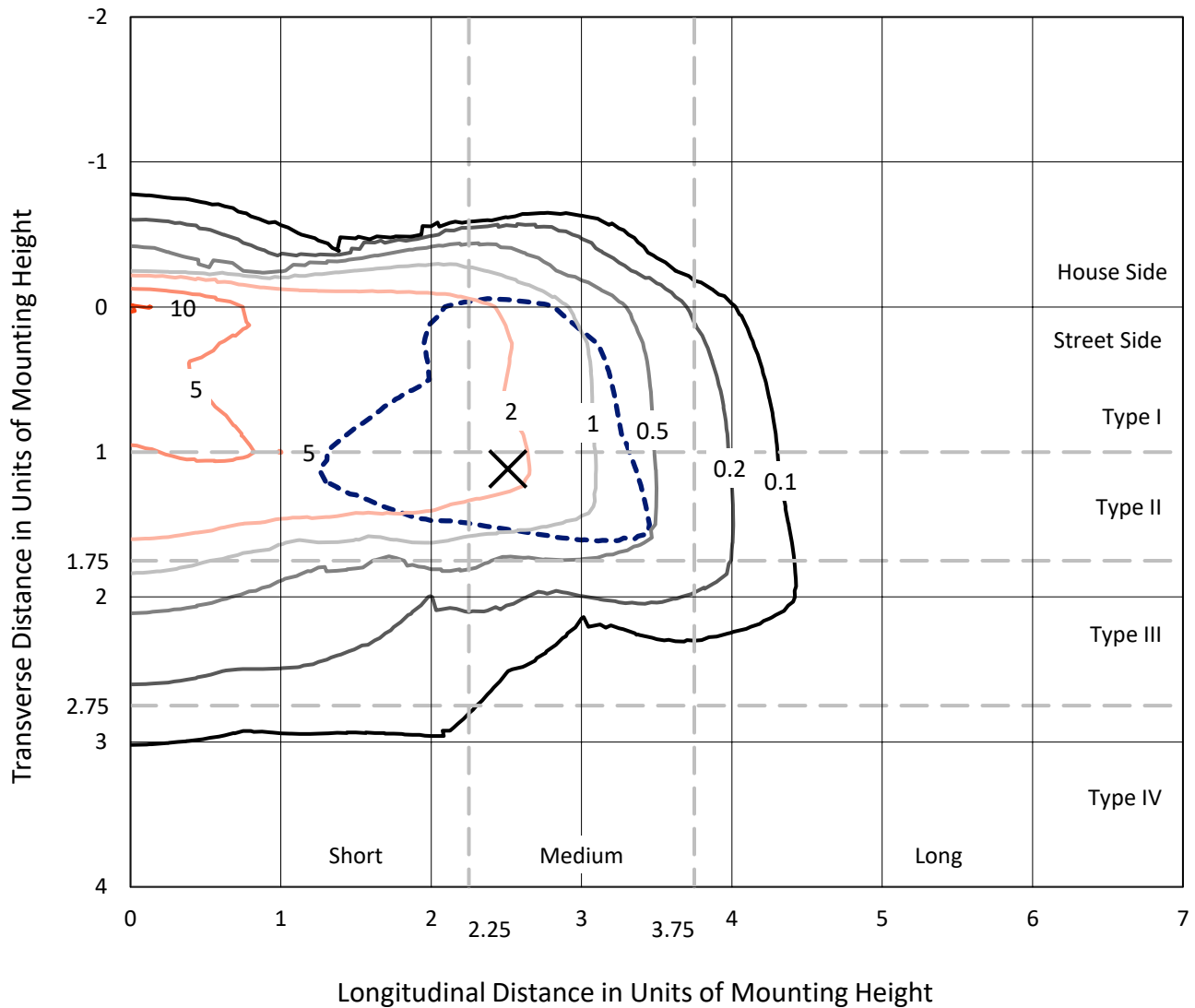
Input Watts (W): 100.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

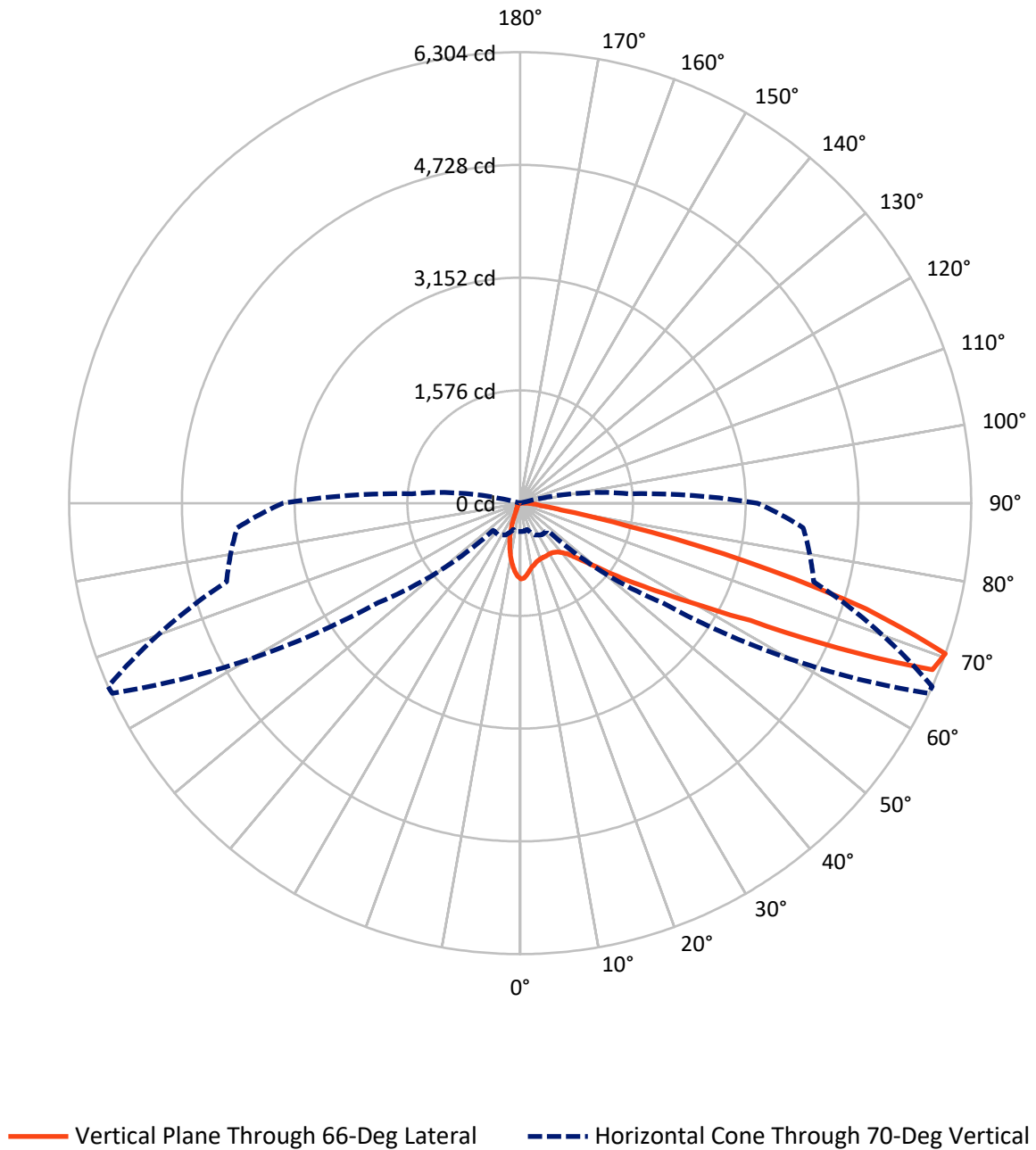
✕ Max cd
- - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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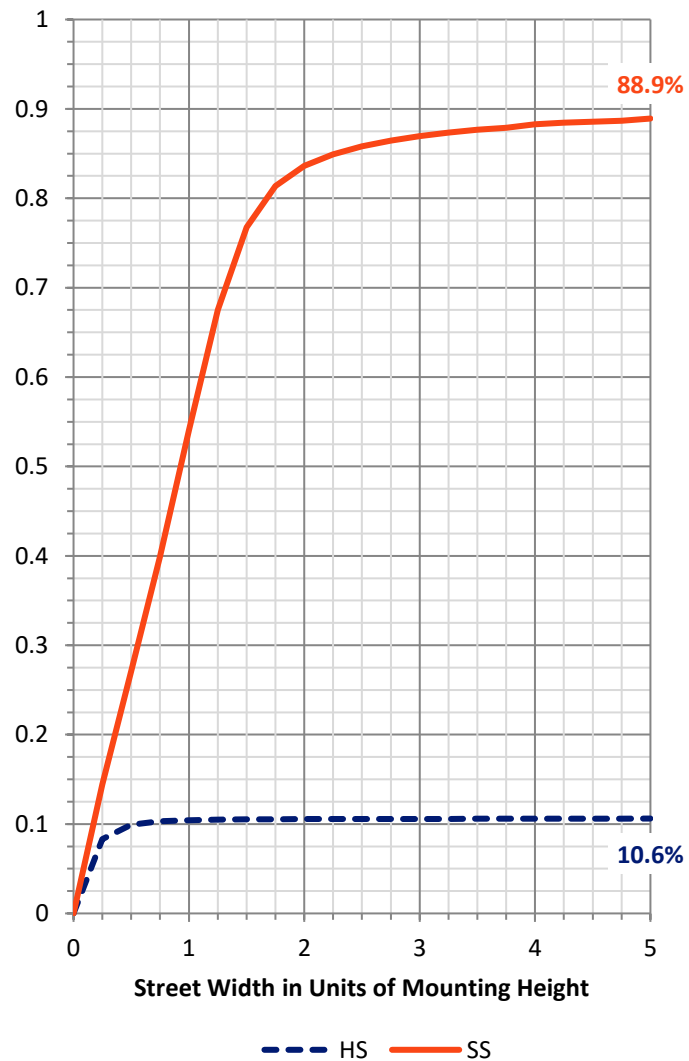
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	458.0	0.0	458.0
	% Fixture	10.7	0.0	10.7
Street Side	Lumens	3817.0	0.0	3817.0
	% Fixture	89.3	0.0	89.3
Total	Lumens	4275.0	0.0	4275.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	1.9
10°-20°	165.9	3.9
20°-30°	236.8	5.5
30°-40°	345.5	8.1
40°-50°	561.7	13.1
50°-60°	968.7	22.7
60°-70°	1234.4	28.9
70°-80°	617.7	14.4
80°-90°	63.6	1.5
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°	4275.0	100.0
0°-180°	4275.0	100.0

Coefficient of Utilization



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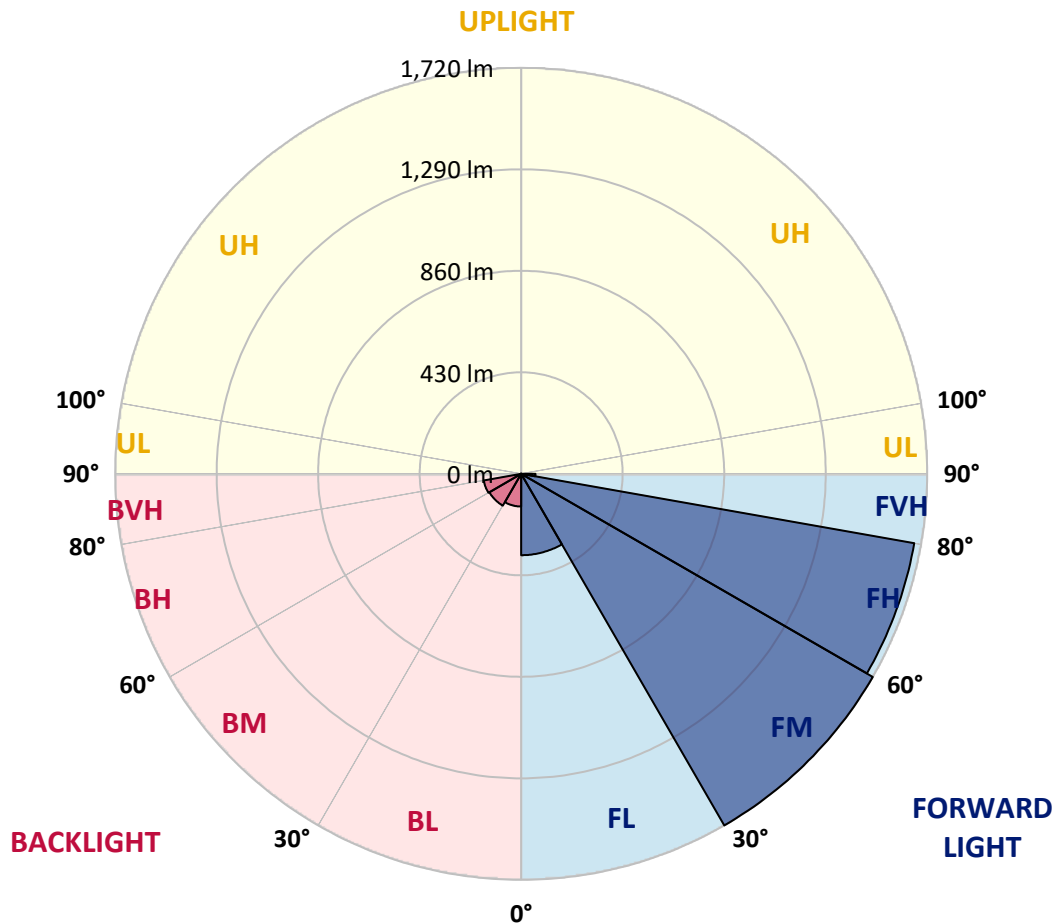
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	344.9	8.1			
FM	(30°-60°)	1720.3	40.2			
FH	(60°-80°)	1691.2	39.6			G1/1800
FVH	(80°-90°)	60.6	1.4			G1/100
BL	(0°-30°)	138.5	3.2	B1/500		
BM	(30°-60°)	155.6	3.6	B0/220		
BH	(60°-80°)	160.9	3.8	B1/500		G1/500
BVH	(80°-90°)	3.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3
2.5°	990.7	1000.0	990.7	1002.3	1004.6	1016.2	1034.8	1046.4	1048.7	1058.0	1060.3
5°	914.1	914.1	918.8	928.0	939.6	953.6	969.8	986.0	1004.6	1027.8	1048.7
7.5°	853.8	844.5	846.8	853.8	874.7	893.2	916.4	944.3	948.9	990.7	1030.1
10°	788.8	786.5	791.1	807.4	821.3	837.5	865.4	900.2	904.8	951.2	1020.8
12.5°	740.1	737.8	744.7	749.4	772.6	795.8	828.3	870.0	881.6	928.0	1016.2
15°	703.0	703.0	707.6	719.2	737.8	765.6	798.1	846.8	851.5	911.8	1025.5
17.5°	693.7	686.7	686.7	693.7	709.9	737.8	772.6	832.9	837.5	911.8	1037.1
20°	696.0	691.4	686.7	682.1	696.0	728.5	761.0	819.0	825.9	911.8	1058.0
22.5°	709.9	707.6	700.7	693.7	696.0	716.9	756.3	812.0	823.6	909.5	1074.2
25°	747.1	742.4	735.5	716.9	705.3	716.9	756.3	812.0	823.6	907.2	1088.1
27.5°	788.8	781.9	781.9	765.6	733.1	726.2	758.7	814.3	819.0	907.2	1104.4
30°	856.1	849.1	842.2	823.6	786.5	754.0	772.6	819.0	819.0	909.5	1109.0
32.5°	932.7	932.7	923.4	907.2	851.5	788.8	786.5	821.3	823.6	900.2	1109.0
35°	1023.2	1023.2	1030.1	1011.6	939.6	844.5	819.0	837.5	842.2	909.5	1099.7
37.5°	1099.7	1099.7	1116.0	1129.9	1048.7	921.1	865.4	867.7	865.4	925.7	1106.7
40°	1187.9	1190.2	1215.7	1243.6	1192.5	1020.8	935.0	911.8	909.5	946.6	1129.9
42.5°	1285.3	1290.0	1334.0	1375.8	1334.0	1155.4	1032.4	974.4	967.5	1004.6	1176.3
45°	1368.8	1385.1	1452.4	1517.3	1510.4	1322.4	1157.7	1081.2	1076.5	1095.1	1250.5
47.5°	1524.3	1528.9	1598.5	1686.7	1705.3	1533.6	1317.8	1232.0	1222.7	1222.7	1371.2
50°	1686.7	1702.9	1760.9	1890.9	1981.3	1774.9	1522.0	1429.2	1422.2	1396.7	1545.2
52.5°	1767.9	1779.5	1856.1	1995.3	2255.1	2141.4	1770.2	1705.3	1686.7	1654.2	1760.9
55°	1698.3	1705.3	1767.9	1972.1	2366.5	2661.1	2146.1	2002.2	2004.5	1937.3	2090.4
57.5°	1412.9	1419.9	1473.3	1698.3	2292.2	3009.1	2700.6	2429.1	2389.7	2236.6	2385.0
60°	1055.6	1048.7	1034.8	1199.5	1842.1	3064.8	3593.8	2955.8	2911.7	2510.3	2714.5
62.5°	791.1	781.9	763.3	800.4	1092.8	2698.3	4166.9	3691.2	3610.0	2830.5	3097.3
65°	614.8	603.2	605.5	624.1	682.1	1742.4	4354.8	5090.3	4879.1	3331.6	3575.2
67.5°	487.2	482.6	473.3	556.8	549.9	846.8	3844.4	6231.7	6215.5	4011.4	4187.7
70°	394.4	396.7	382.8	491.9	535.9	535.9	2424.5	6289.7	6303.7	4248.1	3969.7
72.5°	285.4	283.0	290.0	403.7	531.3	510.4	1062.6	5025.3	5057.8	3737.6	3097.3
75°	155.4	162.4	190.2	292.3	529.0	498.8	522.0	3250.4	3285.2	2287.6	1508.1
77.5°	78.9	81.2	102.1	178.6	426.9	484.9	454.7	1547.5	1524.3	879.3	399.1
80°	37.1	37.1	48.7	106.7	278.4	491.9	417.6	610.2	587.0	178.6	92.8
82.5°	13.9	13.9	23.2	62.6	155.4	413.0	373.5	322.5	299.3	55.7	58.0
85°	2.3	2.3	11.6	34.8	69.6	199.5	308.6	255.2	227.4	25.5	32.5
87.5°	0.0	0.0	4.6	9.3	20.9	95.1	155.4	153.1	132.2	11.6	16.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3
2.5°	1051.0	1044.0	1027.8	1018.5	995.3	976.8	960.5	935.0	918.8	925.7	930.4
5°	1044.0	1030.1	997.6	948.9	900.2	844.5	800.4	749.4	735.5	721.5	733.1
7.5°	1030.1	1006.9	944.3	863.1	770.3	693.7	614.8	552.2	510.4	480.3	475.6
10°	1018.5	986.0	881.6	770.3	635.7	517.4	399.1	315.5	255.2	232.0	222.7
12.5°	1006.9	967.5	825.9	663.5	491.9	324.8	201.8	139.2	116.0	113.7	111.4
15°	1013.9	955.9	770.3	561.5	345.7	176.3	111.4	99.8	99.8	99.8	97.4
17.5°	1023.2	937.3	719.2	461.7	201.8	104.4	95.1	90.5	88.2	88.2	88.2
20°	1030.1	918.8	656.6	345.7	116.0	90.5	85.8	81.2	76.6	76.6	76.6
22.5°	1023.2	907.2	584.7	232.0	90.5	78.9	74.2	69.6	67.3	65.0	62.6
25°	1027.8	886.3	515.1	143.8	81.2	71.9	65.0	58.0	53.4	51.0	51.0
27.5°	1020.8	865.4	438.5	97.4	71.9	62.6	53.4	48.7	41.8	39.4	39.4
30°	1011.6	844.5	359.6	78.9	65.0	55.7	46.4	39.4	34.8	32.5	32.5
32.5°	1002.3	809.7	278.4	71.9	60.3	48.7	39.4	32.5	30.2	27.8	27.8
35°	979.1	772.6	201.8	67.3	53.4	41.8	32.5	27.8	25.5	23.2	23.2
37.5°	969.8	747.1	139.2	60.3	48.7	37.1	27.8	23.2	20.9	20.9	20.9
40°	974.4	707.6	97.4	55.7	41.8	32.5	25.5	20.9	18.6	16.2	16.2
42.5°	988.4	696.0	78.9	53.4	37.1	27.8	20.9	16.2	13.9	13.9	13.9
45°	1034.8	698.3	71.9	48.7	32.5	23.2	18.6	13.9	11.6	11.6	11.6
47.5°	1118.3	716.9	67.3	44.1	27.8	20.9	16.2	11.6	9.3	9.3	9.3
50°	1238.9	763.3	65.0	39.4	25.5	18.6	13.9	9.3	7.0	7.0	7.0
52.5°	1429.2	844.5	60.3	34.8	20.9	16.2	9.3	7.0	7.0	4.6	4.6
55°	1684.4	960.5	55.7	30.2	18.6	11.6	9.3	7.0	4.6	4.6	4.6
57.5°	1965.1	1097.4	48.7	25.5	16.2	11.6	7.0	4.6	4.6	2.3	2.3
60°	2294.6	1303.9	41.8	20.9	13.9	9.3	7.0	4.6	2.3	2.3	2.3
62.5°	2705.2	1561.4	34.8	18.6	11.6	7.0	4.6	2.3	2.3	2.3	2.3
65°	3282.9	1863.0	27.8	13.9	9.3	4.6	4.6	2.3	2.3	0.0	0.0
67.5°	3670.4	1900.1	25.5	13.9	7.0	4.6	4.6	2.3	0.0	0.0	0.0
70°	3317.7	1519.7	20.9	11.6	7.0	4.6	4.6	2.3	0.0	0.0	0.0
72.5°	2361.8	874.7	18.6	9.3	7.0	4.6	4.6	2.3	2.3	0.0	0.0
75°	1041.7	245.9	18.6	9.3	7.0	7.0	7.0	4.6	2.3	0.0	0.0
77.5°	250.6	76.6	16.2	9.3	9.3	9.3	9.3	4.6	2.3	0.0	0.0
80°	62.6	27.8	13.9	9.3	9.3	9.3	9.3	4.6	2.3	2.3	2.3
82.5°	46.4	20.9	13.9	11.6	9.3	7.0	7.0	4.6	2.3	2.3	2.3
85°	27.8	9.3	4.6	4.6	4.6	4.6	4.6	2.3	2.3	2.3	2.3
87.5°	16.2	4.6	4.6	2.3	2.3	2.3	0.0	0.0	0.0	2.3	2.3
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)