

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: P382744

Luminaire Tested: **GLEON-SA1B-735-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1B-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA 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: 4617.7 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

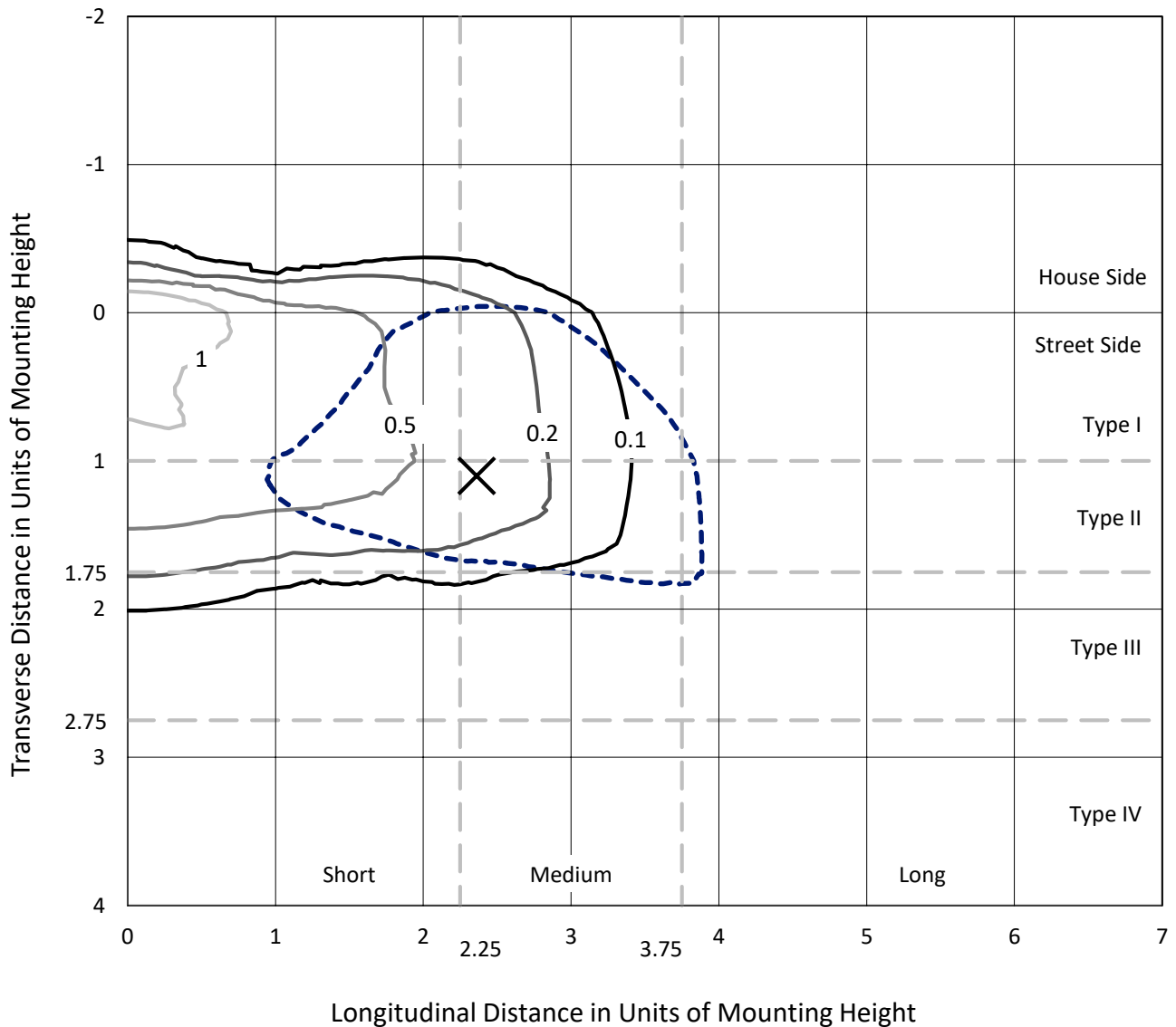
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

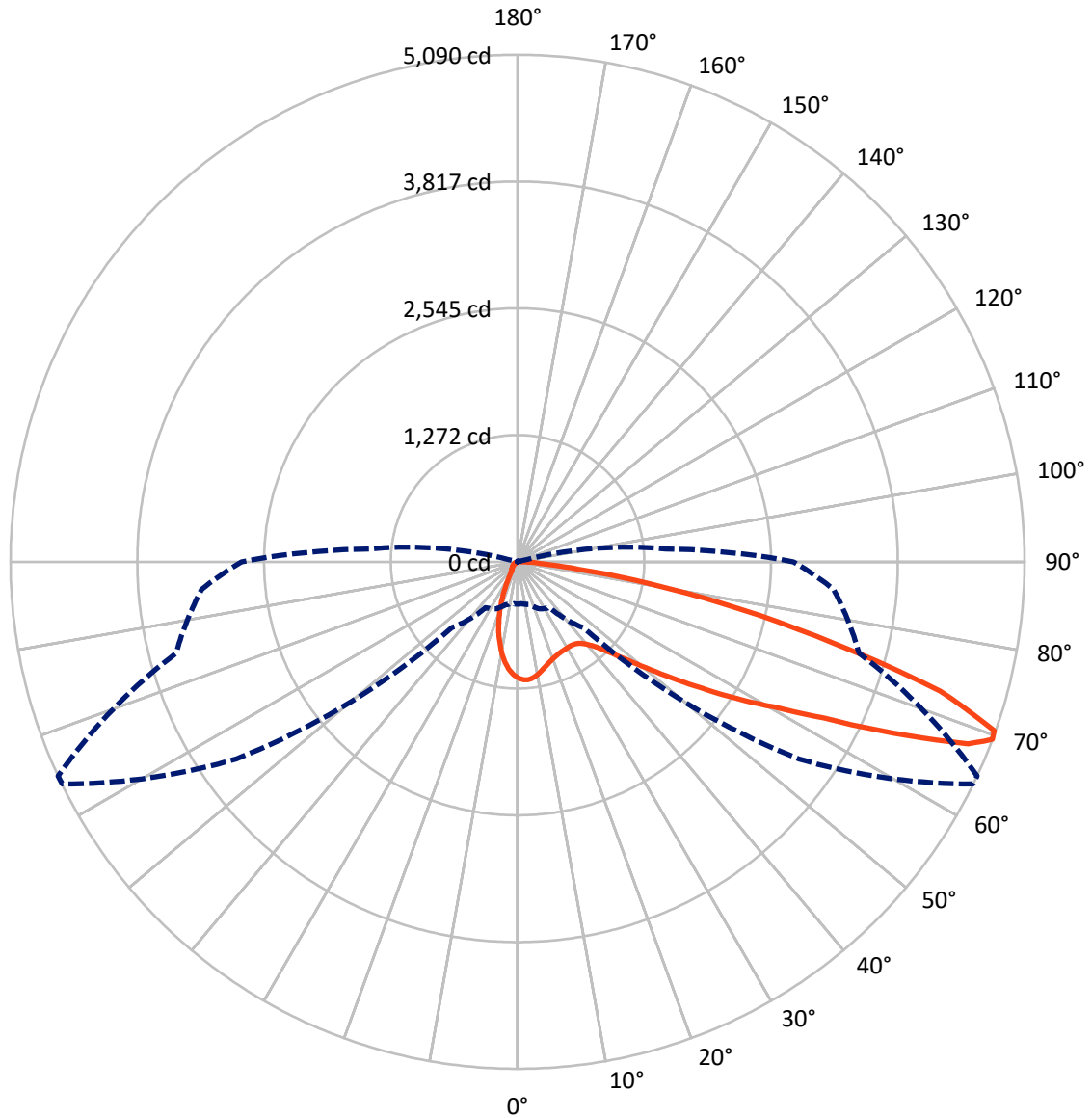
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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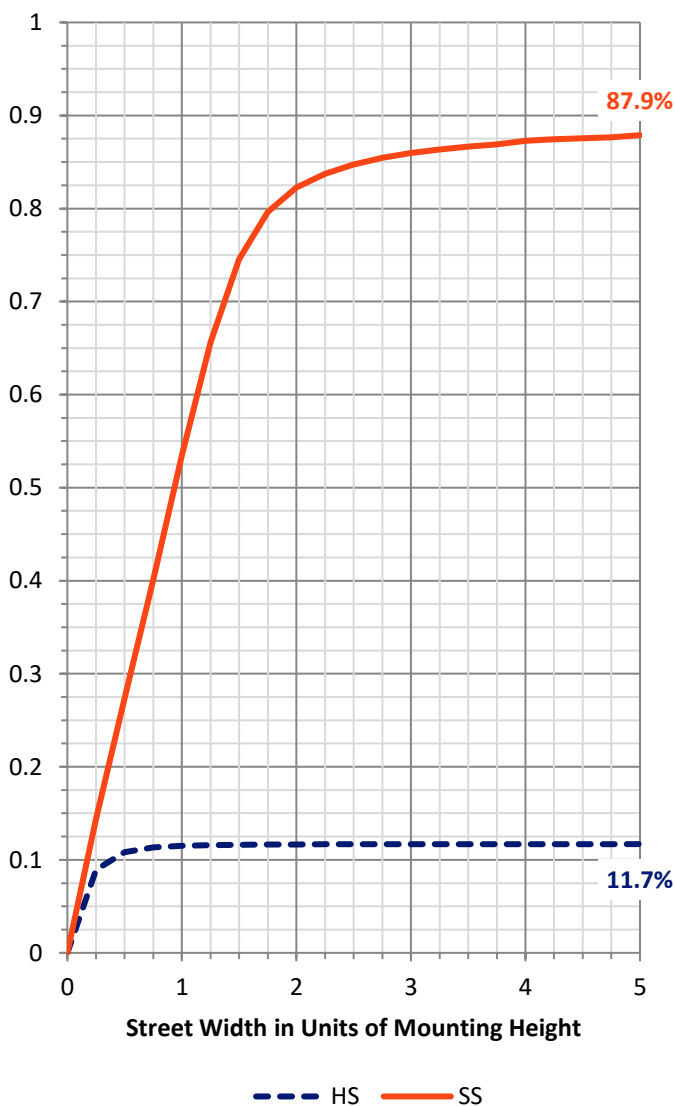
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	544.3	0.0	544.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	4073.4	0.0	4073.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	4617.7	0.0	4617.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.6	2.1
10°-20°	213.6	4.6
20°-30°	295.8	6.4
30°-40°	412.5	8.9
40°-50°	641.2	13.9
50°-60°	1029.3	22.3
60°-70°	1164.3	25.2
70°-80°	683.8	14.8
80°-90°	79.5	1.7
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°	4617.7	100.0
0°-180°	4617.7	100.0

Coefficient of Utilization

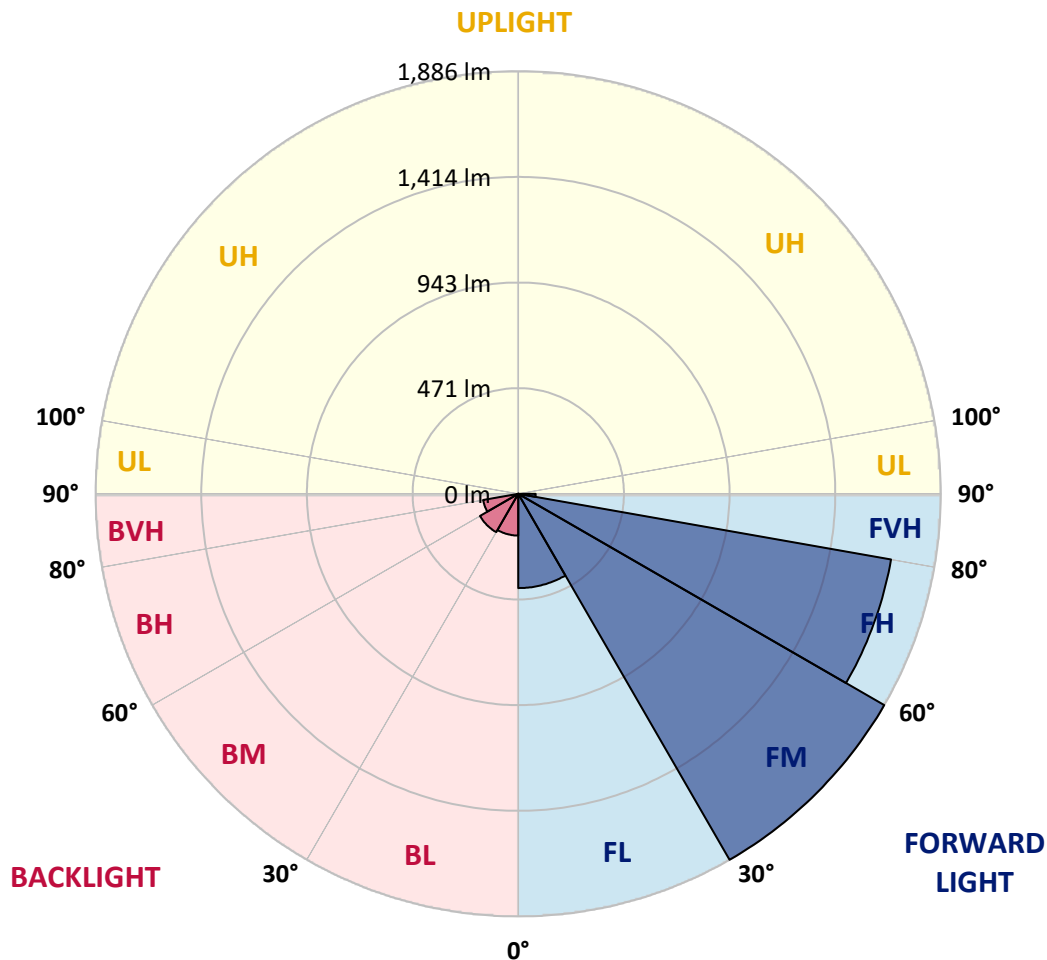


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	420.8	9.1			
FM (30°-60°)	1885.7	40.8			
FH (60°-80°)	1689.1	36.6			G1/1800
FVH (80°-90°)	77.8	1.7			G1/100
BL (0°-30°)	186.2	4.0	B1/500		
BM (30°-60°)	197.2	4.3	B0/220		
BH (60°-80°)	159.0	3.4	B1/500		G1/500
BVH (80°-90°)	1.8	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-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1166.9	1166.9	1166.9	1166.9	1166.9	1166.9	1166.9	1166.9	1166.9	1166.9	1166.9
2.5°	1177.3	1174.3	1176.6	1181.8	1184.3	1184.3	1186.2	1183.9	1184.6	1179.0	1170.8
5°	1103.6	1099.1	1105.6	1119.8	1137.4	1152.4	1174.7	1186.4	1187.6	1187.8	1178.2
7.5°	1024.2	1020.1	1029.7	1046.5	1069.2	1097.2	1136.0	1170.0	1172.0	1190.3	1183.3
10°	959.8	956.9	968.0	985.9	1012.5	1043.8	1091.5	1138.7	1144.4	1185.0	1182.5
12.5°	908.5	906.2	916.8	937.5	964.6	999.3	1049.1	1104.0	1111.6	1173.2	1178.6
15°	871.3	870.9	879.7	899.6	929.7	961.9	1013.0	1071.7	1080.5	1160.2	1178.0
17.5°	851.7	852.3	858.8	875.7	901.6	933.6	982.4	1044.5	1054.1	1148.7	1180.9
20°	849.8	850.3	853.9	863.5	884.3	912.7	957.6	1021.7	1031.7	1140.1	1185.7
22.5°	867.0	866.6	867.6	866.6	878.3	899.8	941.2	1004.1	1015.7	1134.4	1189.4
25°	900.0	899.4	899.0	891.8	883.9	895.5	934.3	994.1	1005.1	1130.3	1191.5
27.5°	945.9	945.5	945.0	933.0	909.6	902.3	935.2	990.4	999.6	1127.1	1191.2
30°	1006.3	1009.1	1008.2	991.6	955.1	923.3	943.4	988.5	996.5	1120.6	1187.0
32.5°	1077.2	1082.6	1087.0	1069.2	1023.5	964.6	962.3	990.6	996.5	1115.7	1179.6
35°	1150.8	1157.9	1173.7	1167.5	1107.3	1027.0	995.0	1003.6	1008.4	1118.4	1176.1
37.5°	1223.4	1231.8	1266.2	1284.3	1217.1	1109.5	1045.8	1035.4	1037.9	1135.1	1180.0
40°	1307.6	1320.3	1372.4	1401.8	1348.2	1219.9	1121.8	1090.1	1091.1	1171.6	1198.2
42.5°	1418.2	1431.2	1487.8	1533.6	1496.0	1359.3	1224.9	1173.7	1172.7	1240.0	1240.9
45°	1553.0	1566.7	1625.1	1676.1	1659.1	1524.7	1357.0	1295.9	1294.7	1347.9	1322.1
47.5°	1705.8	1719.3	1771.4	1824.0	1842.4	1717.7	1525.2	1462.5	1459.8	1497.7	1447.3
50°	1836.9	1845.7	1893.7	1964.5	2047.4	1954.9	1734.5	1674.2	1671.2	1696.8	1631.1
52.5°	1884.6	1889.6	1938.6	2037.6	2244.3	2276.1	2009.4	1931.7	1929.5	1940.7	1876.0
55°	1788.0	1797.2	1857.2	2004.1	2350.9	2639.2	2356.4	2250.5	2234.3	2210.3	2131.9
57.5°	1525.0	1539.8	1604.2	1799.6	2301.2	2927.2	2866.5	2611.2	2587.4	2440.5	2340.0
60°	1142.6	1160.6	1214.2	1425.0	2035.2	3029.8	3423.7	3013.2	2959.4	2623.8	2531.3
62.5°	784.1	793.1	829.4	966.9	1498.9	2861.7	3890.0	3551.5	3453.4	2823.1	2738.3
65°	598.9	602.0	616.9	664.1	892.5	2324.6	4075.3	4261.7	4143.2	3061.4	2953.0
67.5°	482.6	480.1	500.6	568.2	597.7	1418.2	3859.0	4933.8	4878.2	3380.1	3169.1
69°	425.5	422.1	443.0	521.5	561.4	937.5	3449.9	5086.3	5089.8	3548.4	3183.9
70°	383.0	385.3	406.1	493.7	549.1	735.8	3059.1	5047.4	5075.2	3611.2	3094.9
72.5°	255.8	262.0	303.7	410.0	528.0	556.9	1847.1	4331.3	4438.0	3469.6	2655.2
75°	144.2	148.9	198.3	309.1	497.4	530.3	975.6	3191.0	3294.1	2901.4	2047.5
77.5°	70.7	73.3	112.2	199.5	416.0	505.3	553.3	2167.5	2285.4	1893.7	1158.1
80°	29.9	31.3	56.1	123.1	297.3	482.3	410.9	1334.0	1348.6	741.9	308.5
82.5°	11.6	11.9	23.7	76.8	188.9	376.0	343.7	632.5	617.2	139.7	70.3
85°	1.4	1.6	8.6	46.1	105.1	193.5	279.2	272.6	252.3	27.8	36.1
87.5°	0.0	0.0	0.6	14.1	31.3	90.6	145.1	113.1	102.0	8.9	18.7
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°	1166.9	1166.9	1166.9	1166.9	1166.9	1166.9	1166.9	1166.9	1166.9	1166.9	1166.9
2.5°	1164.0	1162.0	1151.5	1136.2	1121.8	1103.8	1086.6	1076.2	1068.0	1062.5	1069.0
5°	1167.1	1158.5	1126.4	1085.4	1045.2	999.8	957.6	921.9	907.8	892.1	899.2
7.5°	1166.1	1149.9	1092.2	1019.2	945.3	868.9	796.7	741.0	712.0	683.7	690.9
10°	1161.3	1133.9	1046.5	938.3	827.7	717.9	615.3	537.3	493.7	454.3	460.0
12.5°	1150.5	1112.4	992.6	845.7	697.7	553.0	432.8	332.9	279.4	255.8	258.7
15°	1144.0	1091.5	935.6	751.9	559.0	385.1	264.6	196.7	172.3	164.5	165.5
17.5°	1140.9	1071.4	876.6	644.6	417.1	245.2	170.9	150.8	145.6	144.2	144.6
20°	1137.8	1051.1	815.8	538.5	287.4	164.9	140.5	134.6	132.7	130.9	131.3
22.5°	1132.5	1031.5	750.5	431.0	193.9	133.9	126.6	120.9	116.8	114.7	115.0
25°	1126.1	1011.0	683.8	321.0	141.5	119.4	112.5	104.5	99.7	95.8	95.9
27.5°	1115.7	985.8	615.1	233.7	118.8	106.8	97.7	88.9	80.7	76.2	76.2
30°	1101.3	957.3	538.7	167.2	106.5	94.6	83.5	72.5	63.7	59.6	59.2
32.5°	1085.3	927.5	461.5	126.8	96.7	83.0	70.3	58.8	51.0	47.7	47.5
35°	1071.6	895.5	384.5	106.3	86.9	71.9	58.0	48.3	42.0	39.3	39.1
37.5°	1062.7	863.5	309.5	94.9	78.2	61.6	48.6	39.9	35.4	33.3	33.0
40°	1061.4	839.6	240.9	86.4	70.0	52.4	40.6	33.8	29.7	27.4	27.2
42.5°	1079.2	825.9	184.8	79.1	61.6	44.3	34.6	28.9	24.6	22.3	22.1
45°	1125.9	830.2	142.2	72.7	53.2	37.5	29.3	24.0	20.1	18.4	18.0
47.5°	1211.0	859.9	113.1	66.2	45.2	31.9	25.0	19.9	16.6	14.8	14.6
50°	1362.7	929.7	94.6	59.2	37.7	27.2	20.7	16.2	13.5	11.9	11.7
52.5°	1564.0	1054.0	84.4	52.4	31.3	23.1	17.0	12.9	10.5	9.4	9.2
55°	1785.9	1204.4	77.8	44.9	25.6	19.2	13.5	10.2	8.2	7.3	6.8
57.5°	2002.6	1334.7	71.5	37.7	21.3	15.6	10.7	8.0	6.4	5.5	5.3
60°	2201.7	1454.5	64.3	30.3	17.4	12.3	8.4	6.2	5.1	4.1	4.1
62.5°	2414.9	1547.1	54.3	23.7	14.3	9.4	6.8	5.7	4.1	3.5	3.4
65°	2640.8	1616.0	42.6	18.4	11.2	7.1	5.7	5.9	3.4	2.5	2.3
67.5°	2807.6	1602.3	31.5	14.4	8.6	5.5	5.5	6.2	2.9	2.0	1.8
69°	2770.9	1491.0	26.4	12.5	7.5	4.7	5.1	6.2	2.7	1.8	1.6
70°	2664.4	1368.0	23.3	11.2	6.6	4.3	4.8	6.1	2.5	1.8	1.6
72.5°	2218.9	1030.3	18.2	8.4	5.3	3.5	4.1	5.3	2.5	1.8	1.4
75°	1669.1	659.4	13.9	6.1	3.9	2.7	3.2	3.9	2.5	1.6	1.4
77.5°	908.2	237.8	10.0	4.1	2.7	2.1	2.1	2.9	2.3	1.2	0.7
80°	233.5	59.8	6.2	2.7	2.1	1.6	1.4	2.0	1.4	0.2	0.0
82.5°	57.7	13.5	3.4	2.0	1.6	0.6	0.6	0.9	0.6	0.0	0.0
85°	31.7	6.6	2.1	1.4	0.7	0.0	0.0	0.2	0.0	0.0	0.0
87.5°	16.2	2.0	0.6	0.4	0.2	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	0.0

(END OF REPORT)