

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: P944870

Luminaire Tested: **GALN-SB1A-727-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3206 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 30.9
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

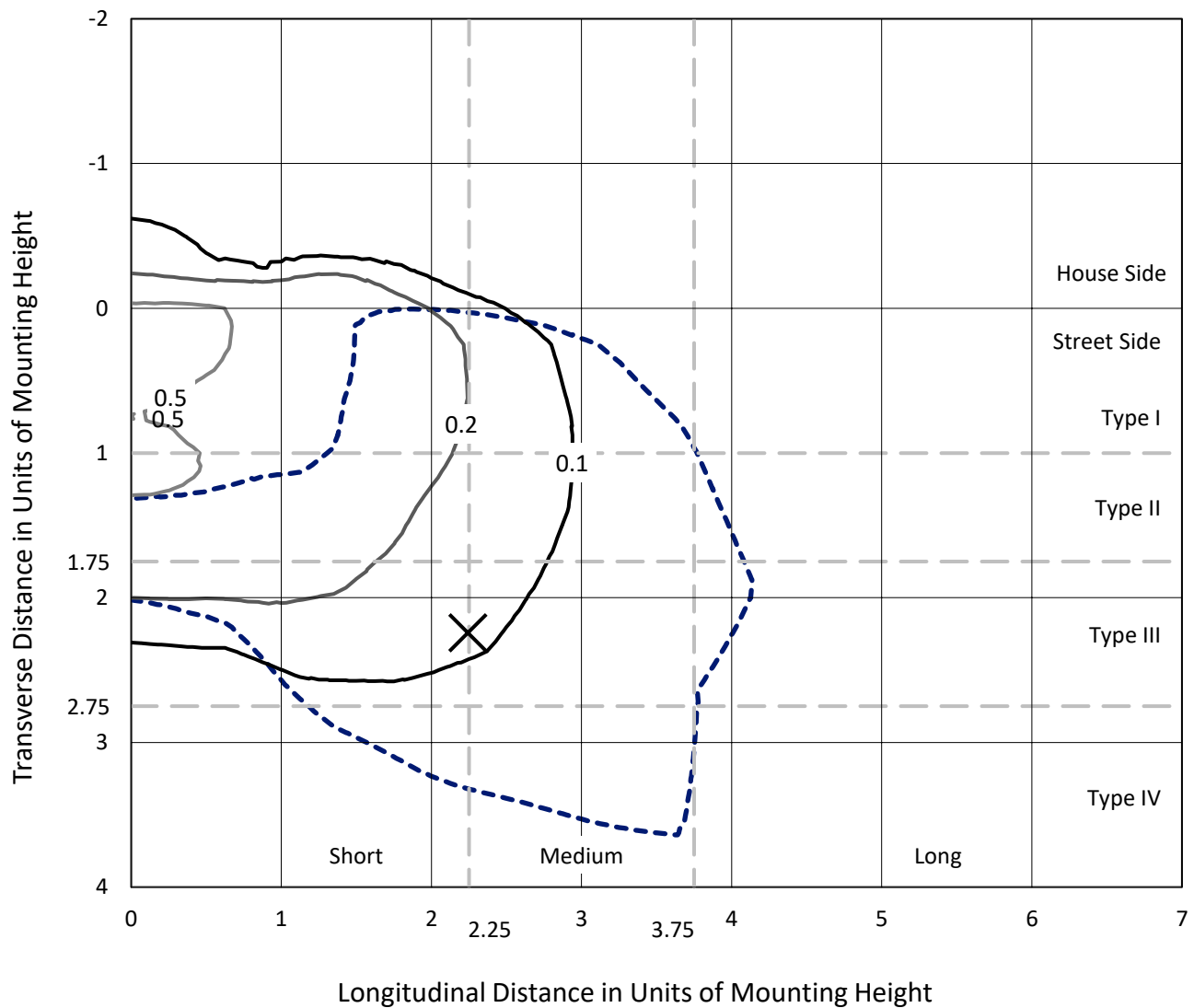


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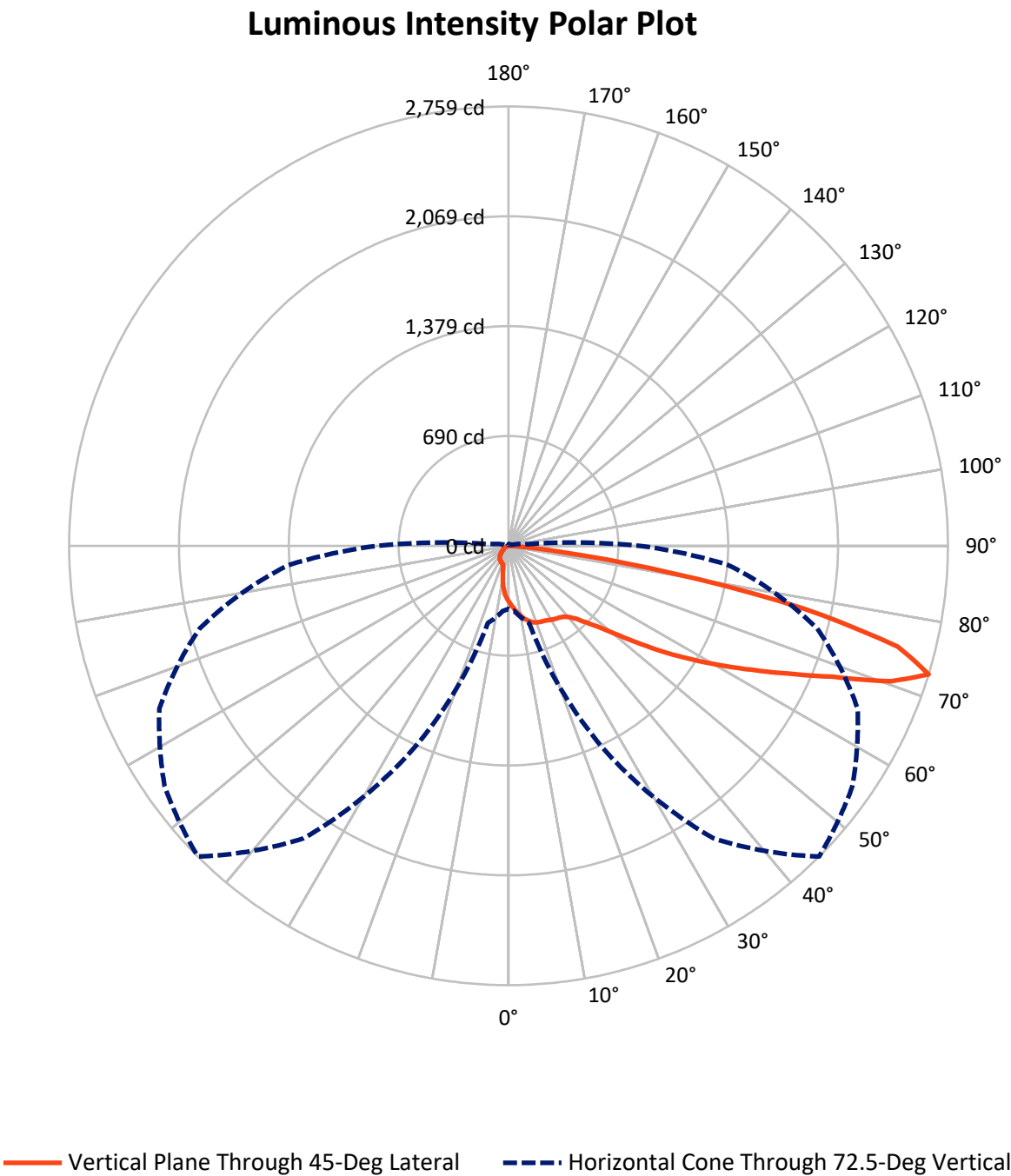
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
Type IV - Short - N/A

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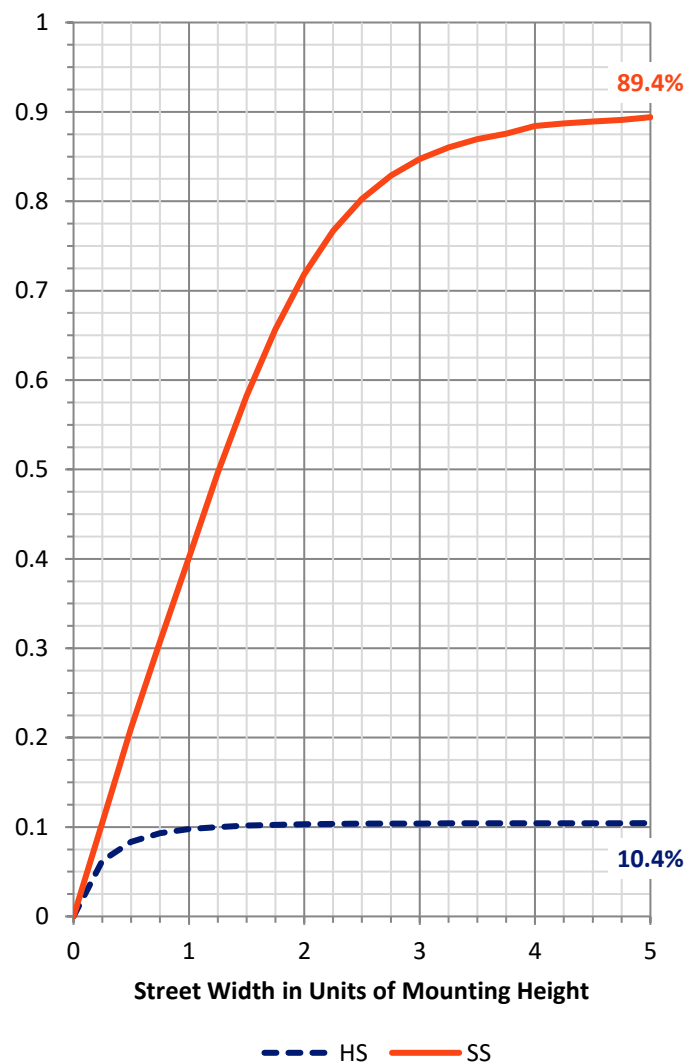
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	336.9	0.0	336.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	2869.1	0.0	2869.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	3206.0	0.0	3206.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.1	1.0
10°-20°	96.7	3.0
20°-30°	158.8	5.0
30°-40°	225.2	7.0
40°-50°	372.3	11.6
50°-60°	668.8	20.9
60°-70°	928.7	29.0
70°-80°	673.6	21.0
80°-90°	48.7	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°	3206.0	100.0
0°-180°	3206.0	100.0

Coefficient of Utilization



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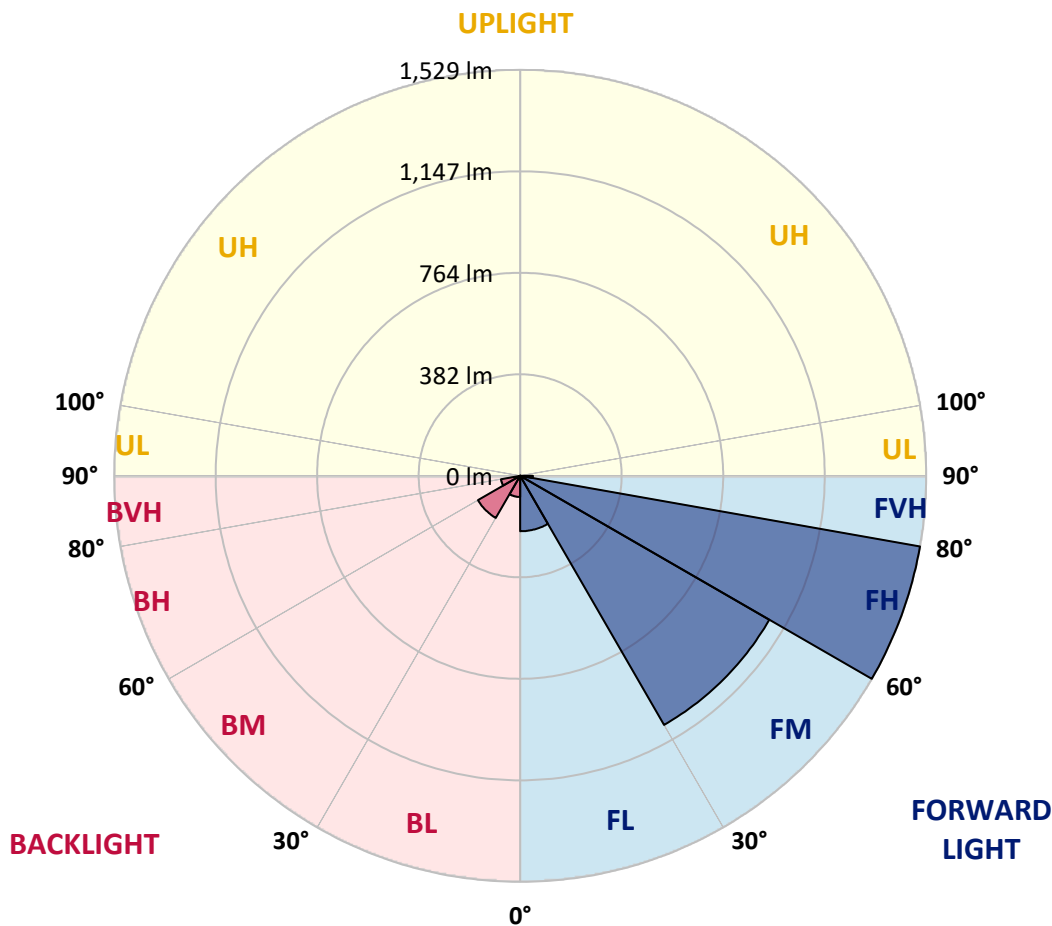
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	208.8	6.5			
FM	(30°-60°)	1083.2	33.8			
FH	(60°-80°)	1528.9	47.7			G1/1800
FVH	(80°-90°)	48.3	1.5			G1/100
BL	(0°-30°)	79.8	2.5	B0/110		
BM	(30°-60°)	183.2	5.7	B0/220		
BH	(60°-80°)	73.5	2.3	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	351.2	351.2	351.2	351.2	351.2	351.2	351.2	351.2	351.2	351.2	351.2
2.5°	383.6	384.3	383.8	381.2	376.8	374.4	373.1	368.7	365.9	360.9	355.6
5°	418.8	421.5	419.9	414.7	406.4	400.5	398.7	389.7	381.6	372.2	361.3
7.5°	456.3	457.6	454.7	447.9	436.8	426.7	425.2	412.7	399.8	385.4	370.5
10°	488.7	490.2	485.8	476.0	463.3	450.8	448.6	434.8	419.5	401.8	382.7
12.5°	515.8	517.3	511.6	499.8	485.8	472.9	470.7	456.3	439.4	419.7	396.1
15°	536.4	539.2	531.5	518.8	503.7	490.8	489.7	475.5	459.1	437.2	412.1
17.5°	548.4	551.2	544.0	528.7	515.8	504.8	503.5	491.7	476.4	455.4	427.6
20°	550.4	553.0	545.3	532.0	521.3	512.5	511.8	503.3	492.2	472.0	444.4
22.5°	544.5	547.7	540.7	530.0	522.6	518.0	517.1	512.3	505.9	488.9	460.2
25°	538.3	541.0	535.7	526.3	522.4	521.9	522.6	521.7	520.4	505.9	478.6
27.5°	537.9	540.7	534.8	525.9	523.7	528.3	528.9	533.1	534.2	521.5	496.3
30°	541.6	543.6	537.9	528.5	527.4	537.9	538.1	545.5	547.3	534.6	513.8
32.5°	549.7	551.9	546.2	532.4	530.9	545.5	546.2	556.1	558.9	548.6	532.2
35°	568.7	571.4	564.8	543.4	537.9	552.8	554.7	566.3	572.0	563.5	551.2
37.5°	616.2	608.6	599.6	565.5	553.9	564.1	567.4	581.0	591.1	581.2	574.0
40°	734.2	710.1	682.1	603.1	581.9	588.4	591.1	604.6	618.4	608.8	605.3
42.5°	911.2	882.8	837.7	689.8	624.1	627.4	629.4	641.2	660.7	653.0	653.9
45°	1069.0	1058.7	1012.8	837.7	703.1	686.9	689.3	695.4	724.1	721.3	727.0
47.5°	1190.2	1184.3	1148.9	1007.5	836.6	759.8	766.6	769.4	810.8	820.8	836.2
50°	1283.4	1281.3	1249.5	1158.5	1011.0	867.2	869.6	863.5	925.4	950.4	979.5
52.5°	1371.4	1378.9	1355.4	1298.8	1197.2	1007.9	1007.5	978.6	1062.2	1099.8	1149.5
55°	1450.9	1453.5	1455.9	1441.9	1384.5	1168.1	1164.0	1116.7	1220.9	1259.8	1313.6
57.5°	1525.5	1526.6	1548.0	1576.7	1579.5	1340.1	1332.5	1275.8	1394.2	1422.0	1455.0
60°	1575.6	1580.6	1625.9	1705.6	1740.4	1517.6	1513.4	1455.7	1570.6	1583.5	1577.3
62.5°	1503.4	1534.0	1648.2	1806.2	1892.2	1714.3	1712.4	1658.1	1756.1	1745.6	1693.1
65°	1216.9	1268.8	1469.7	1874.3	2041.3	1934.0	1936.9	1879.1	1946.7	1912.6	1787.2
67.5°	851.3	906.0	1143.6	1879.8	2207.8	2192.0	2208.4	2117.8	2149.1	2072.6	1809.5
70°	588.7	616.9	771.6	1762.0	2337.6	2547.4	2547.0	2411.1	2350.5	2145.4	1695.7
72.5°	395.9	410.5	501.1	1397.9	2242.1	2758.6	2745.9	2635.2	2418.3	2006.5	1385.4
75°	167.0	177.7	232.0	785.6	1773.8	2523.8	2489.4	2328.8	2148.7	1580.0	864.4
77.5°	53.0	57.6	91.5	281.2	977.1	1897.0	1860.7	1454.4	1440.1	792.6	316.0
80°	25.2	29.3	51.4	112.9	384.5	1031.8	1026.8	659.8	619.5	214.0	63.5
82.5°	10.9	12.9	28.4	60.4	172.0	368.1	375.5	224.5	185.8	81.2	19.5
85°	3.5	4.6	13.1	27.8	72.7	91.5	90.4	53.4	74.8	44.2	6.8
87.5°	0.0	0.0	4.4	6.3	7.4	5.3	5.9	4.6	20.8	12.3	2.4
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°	351.2	351.2	351.2	351.2	351.2	351.2	351.2	351.2	351.2	351.2	351.2
2.5°	353.0	349.5	343.3	337.7	332.6	327.6	324.5	320.2	319.7	319.7	320.8
5°	355.4	349.7	338.8	327.2	313.8	301.1	288.4	276.2	272.2	269.4	270.7
7.5°	362.4	353.4	336.1	314.0	288.6	260.8	241.4	220.4	212.3	207.9	208.5
10°	372.5	360.2	333.9	295.2	254.1	216.2	188.4	165.7	156.9	153.2	153.2
12.5°	383.6	368.5	330.0	271.8	216.2	170.9	143.8	133.3	132.0	132.0	132.0
15°	397.0	378.6	323.2	244.2	176.6	135.2	125.6	126.0	127.4	128.2	128.2
17.5°	410.7	389.3	312.5	213.4	141.6	121.7	121.9	122.5	123.6	124.5	124.5
20°	425.6	400.0	298.3	180.5	121.5	117.7	118.4	119.0	119.9	120.4	120.6
22.5°	441.6	410.1	281.4	148.4	114.7	114.4	114.7	115.3	116.4	116.4	116.9
25°	458.7	421.3	262.2	125.0	111.2	111.2	111.6	112.0	112.9	112.9	113.1
27.5°	476.2	431.5	241.8	112.7	108.1	107.9	107.9	108.5	109.0	109.2	109.4
30°	495.4	443.6	221.5	110.1	105.7	104.6	103.9	104.4	104.8	105.0	105.5
32.5°	515.1	455.2	203.3	111.2	103.3	101.3	99.1	98.7	98.7	99.6	100.2
35°	537.0	467.9	189.3	114.9	102.0	96.5	93.0	91.0	91.3	92.6	93.2
37.5°	563.3	483.2	179.0	118.2	101.1	91.0	85.3	82.9	81.4	82.9	82.5
40°	597.6	505.7	171.6	120.8	100.0	84.7	77.0	73.1	70.2	71.1	70.7
42.5°	648.2	541.2	168.7	121.0	97.6	77.2	68.5	63.2	59.1	59.3	58.4
45°	719.1	597.2	183.4	118.2	92.3	69.2	59.5	52.5	49.9	49.2	48.4
47.5°	816.2	678.8	217.3	112.3	84.7	61.3	50.8	44.9	42.9	41.8	41.1
50°	946.4	783.6	254.9	105.7	77.0	53.8	43.5	39.8	38.5	37.4	37.2
52.5°	1097.4	890.0	285.8	99.1	69.4	47.3	39.0	36.8	35.7	34.8	34.6
55°	1236.0	963.3	284.0	92.1	61.9	42.0	35.7	34.4	33.0	32.2	31.7
57.5°	1322.2	973.6	234.1	84.5	53.4	37.9	32.6	31.7	30.2	29.1	28.9
60°	1361.8	914.9	164.1	74.4	44.9	33.9	29.3	28.9	26.9	25.4	24.9
62.5°	1369.0	806.0	109.4	61.9	37.4	30.2	26.0	25.4	22.8	20.1	18.8
65°	1339.7	650.1	75.7	48.4	31.9	26.3	22.3	21.0	18.2	15.5	14.7
67.5°	1246.9	456.5	52.7	34.8	27.1	20.8	17.7	17.3	15.1	12.9	12.3
70°	1076.9	260.2	35.2	26.0	21.4	14.2	14.0	14.4	12.3	10.5	9.6
72.5°	825.7	119.0	21.9	19.0	14.7	9.6	11.2	11.4	9.4	7.9	7.0
75°	486.0	51.0	13.8	12.3	7.4	6.3	8.1	8.3	6.3	5.0	4.4
77.5°	165.4	19.3	8.8	7.2	3.7	3.5	5.3	5.3	3.5	2.0	1.5
80°	37.6	7.2	4.4	2.8	1.8	1.5	1.8	1.5	0.9	0.2	0.0
82.5°	10.7	2.8	1.8	1.1	0.7	0.7	0.2	0.0	0.0	0.0	0.0
85°	3.1	1.3	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.2	0.0	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	0.0

(END OF REPORT)