

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: P382734

Luminaire Tested: **GLEON-SA1A-735-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1A-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3227.8 lumens
Efficiency: N/A
Efficacy: 94.9 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

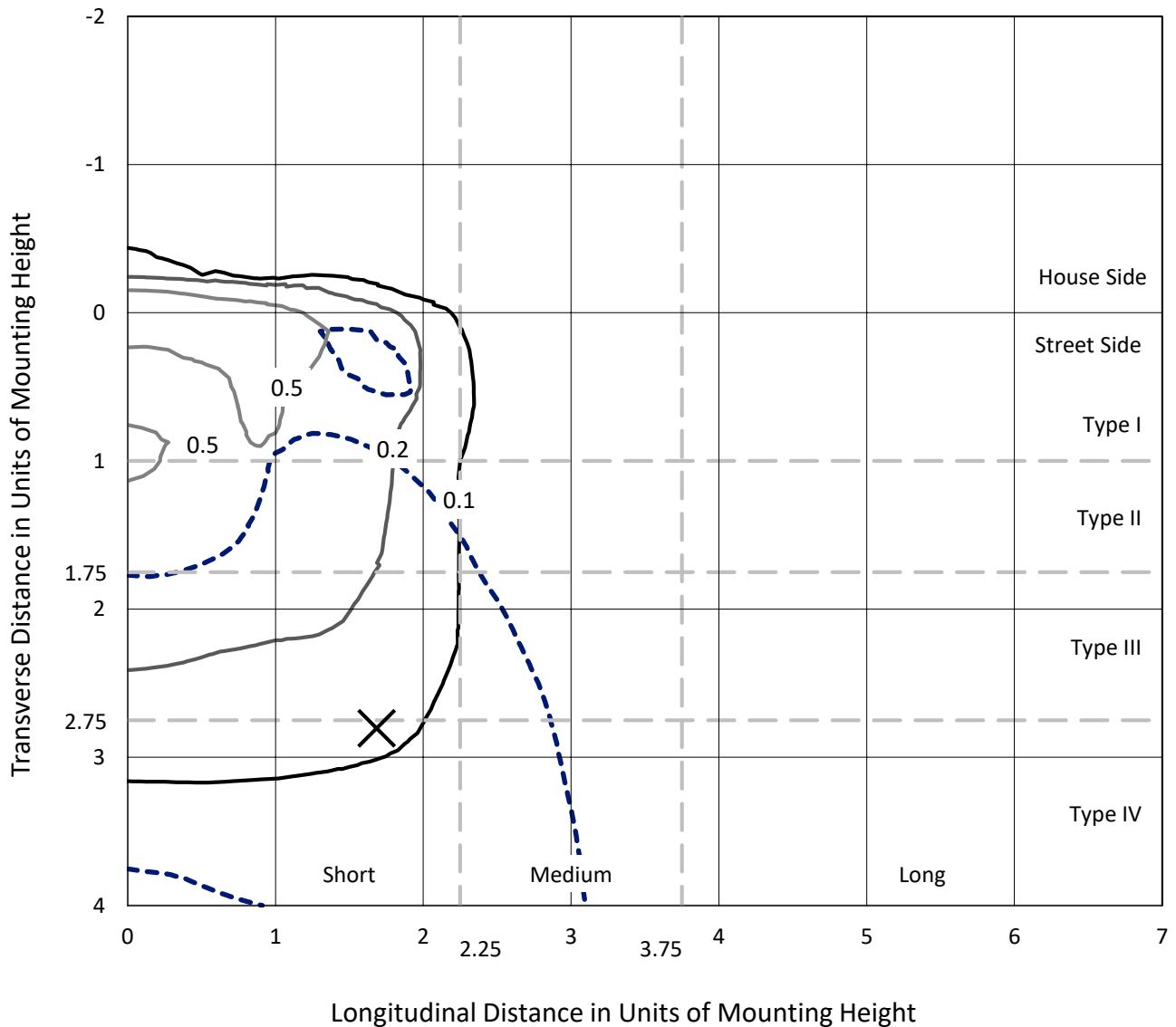
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

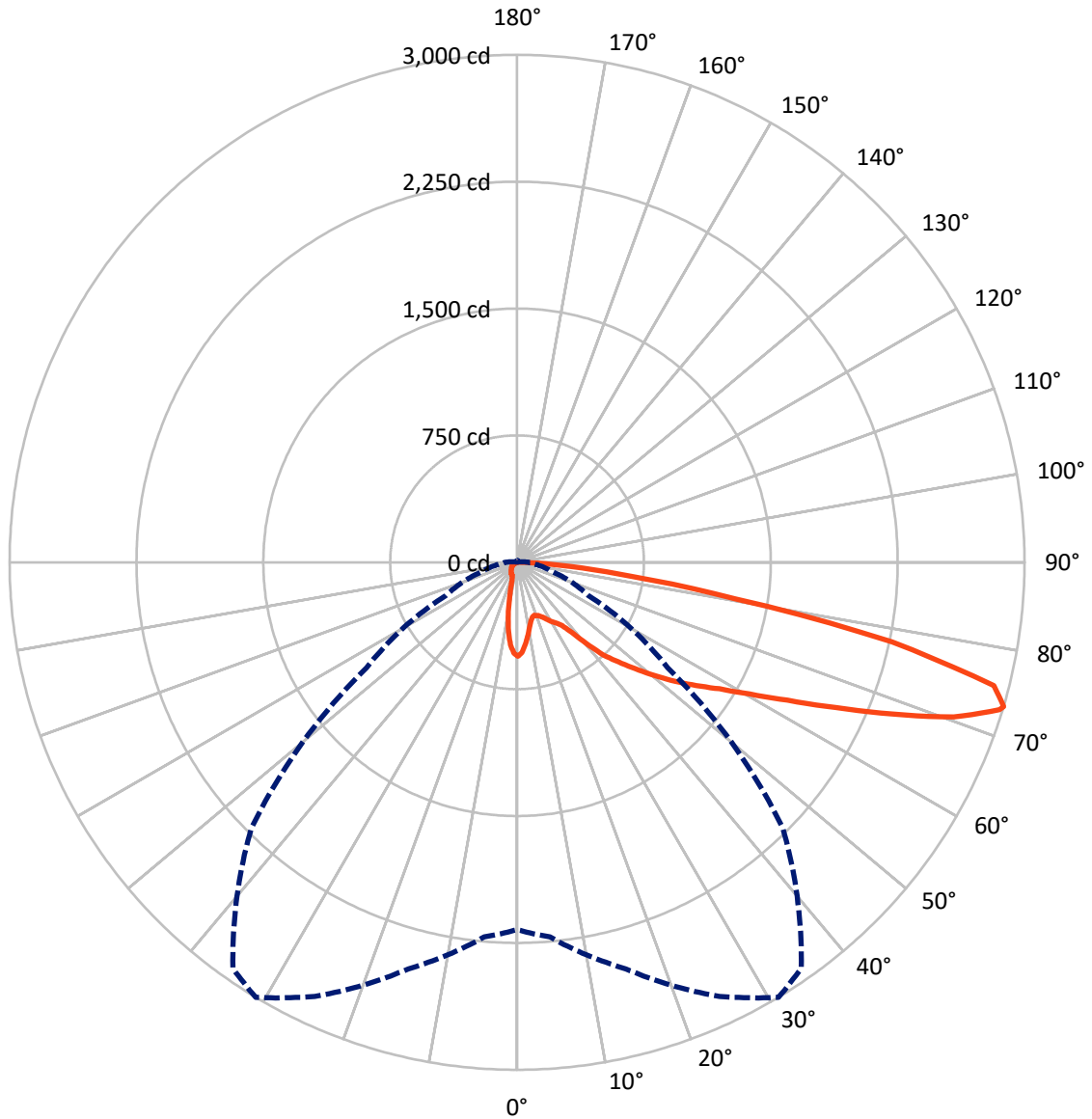
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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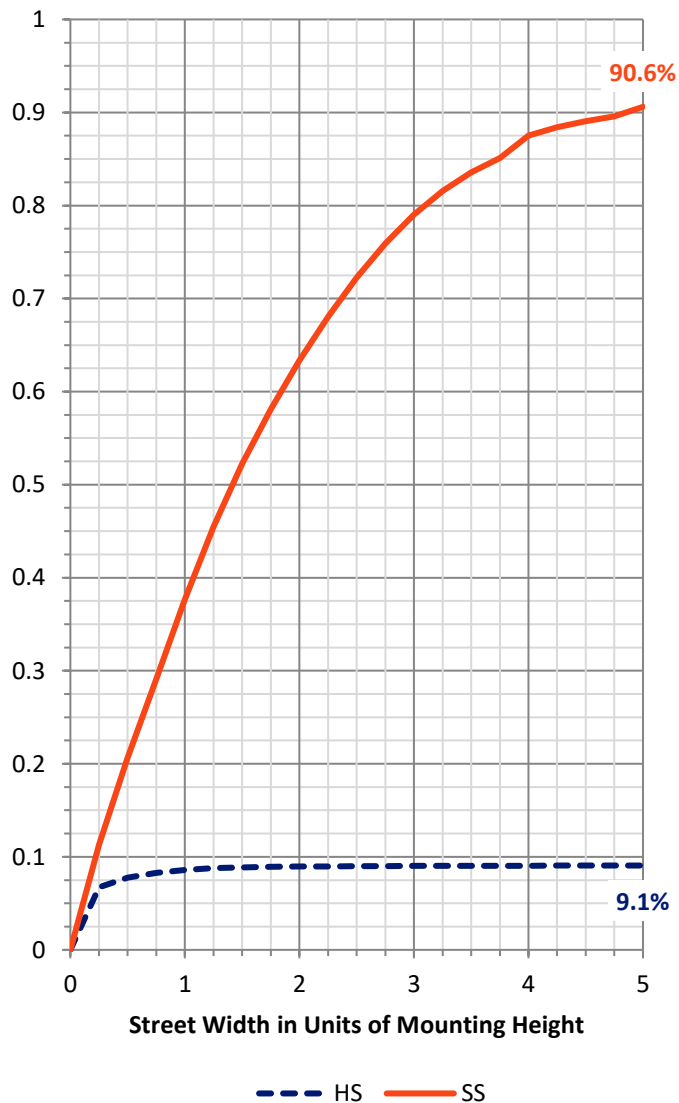
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	294.2	0.0	294.2
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	2933.6	0.0	2933.6
	% Fixture	90.9	0.0	90.9
Total	Lumens	3227.8	0.0	3227.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.0	1.4
10°-20°	100.0	3.1
20°-30°	149.8	4.6
30°-40°	238.3	7.4
40°-50°	425.6	13.2
50°-60°	660.4	20.5
60°-70°	877.9	27.2
70°-80°	660.4	20.5
80°-90°	69.4	2.1
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°	3227.8	100.0
0°-180°	3227.8	100.0

Coefficient of Utilization



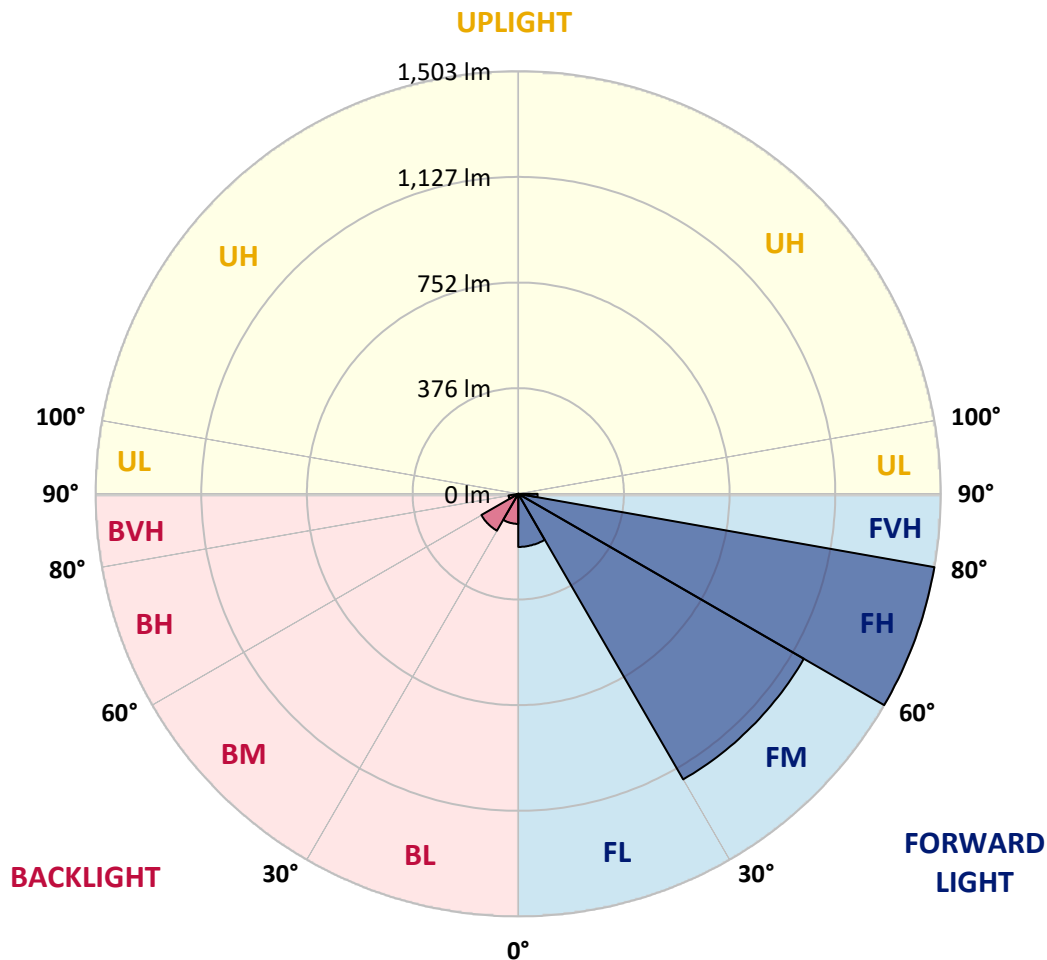
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	188.8	5.9			
FM (30°-60°)	1172.9	36.3			
FH (60°-80°)	1503.1	46.6			G1/1800
FVH (80°-90°)	68.8	2.1			G1/100
BL (0°-30°)	107.0	3.3	B0/110		
BM (30°-60°)	151.4	4.7	B0/220		
BH (60°-80°)	35.2	1.1	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	555.4	555.4	555.4	555.4	555.4	555.4	555.4	555.4	555.4	555.4	555.4
2.5°	526.3	528.5	530.9	531.4	535.3	535.5	541.1	545.4	549.7	553.8	555.2
5°	472.3	475.9	480.2	484.4	492.8	496.1	510.0	524.3	537.8	550.7	557.1
7.5°	414.6	418.7	424.7	435.3	444.6	451.1	473.0	498.4	523.6	547.5	561.2
10°	362.0	365.8	372.2	383.3	397.7	406.5	436.1	471.2	508.3	544.5	567.3
12.5°	328.6	330.6	334.1	346.1	359.0	369.0	403.7	447.1	495.7	544.3	577.3
15°	322.4	323.0	320.2	325.6	335.6	345.3	380.5	427.8	486.0	546.8	590.2
17.5°	332.2	331.8	322.4	321.8	329.8	337.7	369.2	414.3	479.2	552.7	607.0
20°	347.0	345.9	329.5	326.5	335.0	342.4	368.3	409.2	476.7	562.5	627.4
22.5°	366.8	364.9	339.1	335.9	345.1	352.9	378.1	414.2	478.9	575.6	651.1
25°	391.2	388.4	355.7	352.2	361.5	369.3	395.6	428.2	485.5	591.5	681.1
27.5°	418.9	414.8	382.2	373.3	383.8	391.9	419.0	449.7	496.0	608.4	717.9
30°	444.9	439.6	410.2	395.3	408.3	417.3	444.3	475.3	512.7	634.5	768.2
32.5°	471.2	465.1	435.1	417.4	429.2	438.9	470.3	510.5	544.1	674.3	835.2
35°	531.5	525.2	488.4	459.2	459.0	464.6	506.9	558.6	585.7	729.8	915.2
37.5°	633.1	629.4	594.3	538.9	524.1	517.9	556.6	616.1	645.4	806.0	1005.3
40°	744.2	741.1	701.7	651.5	629.0	613.8	628.0	696.2	729.8	899.2	1097.5
42.5°	869.8	854.8	784.7	769.6	749.4	738.0	725.1	795.0	833.4	1000.6	1188.7
45°	983.9	958.6	867.6	844.9	840.3	843.1	850.2	927.6	949.9	1121.1	1279.7
47.5°	1051.8	1031.9	962.1	940.3	939.0	957.8	1011.5	1077.5	1066.0	1226.2	1359.8
50°	1116.4	1098.4	1040.4	1045.8	1051.6	1077.2	1194.6	1231.7	1172.0	1321.4	1433.3
52.5°	1168.6	1141.1	1110.9	1141.1	1169.7	1211.0	1383.4	1370.0	1247.2	1397.2	1496.1
55°	1198.8	1186.3	1201.0	1231.4	1285.4	1352.3	1561.8	1485.2	1302.1	1466.4	1538.0
57.5°	1309.4	1284.9	1314.1	1340.4	1410.8	1504.4	1714.5	1571.0	1341.8	1509.2	1547.6
60°	1443.2	1423.4	1440.6	1484.2	1579.3	1689.5	1857.3	1640.9	1362.5	1536.7	1522.6
62.5°	1656.1	1630.0	1619.3	1668.1	1794.2	1914.3	1965.7	1689.5	1357.9	1524.6	1437.0
65°	1941.3	1914.3	1866.4	1910.6	2070.9	2155.7	2086.9	1699.7	1326.3	1426.1	1220.6
67.5°	2233.6	2214.0	2172.9	2247.5	2392.1	2419.5	2214.9	1674.7	1224.6	1156.3	862.4
70°	2426.6	2418.2	2444.9	2609.8	2738.8	2730.9	2332.4	1540.7	954.5	711.1	426.6
72.5°	2287.4	2327.6	2524.7	2823.7	2981.3	2916.9	2272.1	1183.1	545.5	273.6	123.3
73°	2172.1	2223.4	2488.8	2831.7	3000.4	2929.8	2221.4	1085.9	465.0	215.9	93.5
75°	1511.1	1574.1	2060.5	2637.3	2911.0	2791.5	1851.6	664.7	215.5	95.8	37.7
77.5°	733.7	780.3	1134.5	1905.5	2263.9	2180.9	1152.7	247.7	97.3	59.9	17.4
80°	273.9	304.5	492.5	969.8	1308.3	1342.5	507.0	93.6	64.7	48.2	8.8
82.5°	71.7	79.9	181.7	432.4	670.5	701.7	159.9	47.2	47.4	39.7	5.4
85°	22.9	26.2	56.7	194.1	315.9	277.3	41.7	22.9	34.5	29.5	3.0
87.5°	2.9	3.6	18.0	45.6	69.7	38.7	6.5	6.8	14.7	16.4	1.8
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°	555.4	555.4	555.4	555.4	555.4	555.4	555.4	555.4	555.4	555.4	555.4
2.5°	556.6	555.9	555.9	551.8	549.1	543.8	538.2	535.7	533.1	532.0	533.1
5°	559.5	558.0	553.9	541.3	527.9	510.5	494.2	481.9	466.4	462.1	466.6
7.5°	563.9	561.1	549.1	523.3	493.4	460.3	423.0	395.8	373.6	359.2	364.4
10°	570.4	565.0	540.9	497.1	443.7	384.9	332.0	290.8	261.6	249.6	249.1
12.5°	581.3	571.1	530.7	463.0	382.9	304.5	235.2	190.5	166.8	151.5	151.2
15°	593.3	578.4	517.9	422.1	312.1	218.2	151.5	117.5	102.2	97.3	96.7
17.5°	607.9	586.8	501.4	371.7	238.0	144.5	98.8	89.1	88.5	87.9	87.9
20°	626.5	596.7	480.0	314.0	168.9	96.5	84.0	84.7	85.0	84.3	84.5
22.5°	647.9	606.8	454.6	252.1	114.2	80.7	80.4	81.2	81.5	81.2	81.3
25°	672.9	618.5	423.7	187.1	82.4	76.6	77.4	78.5	79.3	79.3	79.3
27.5°	703.8	632.7	386.3	130.6	71.3	72.4	74.5	76.6	77.7	78.1	78.1
30°	744.1	650.4	341.7	89.5	64.7	66.7	70.8	74.7	76.8	77.0	77.2
32.5°	795.0	670.3	289.8	66.1	59.2	60.6	65.1	71.7	75.6	76.3	76.3
35°	853.2	693.4	234.1	57.7	55.2	55.8	59.2	66.8	73.8	75.5	75.6
37.5°	917.0	716.2	178.0	53.8	52.0	52.0	54.5	60.9	69.2	74.5	75.2
40°	976.6	729.9	124.7	50.9	49.0	49.0	51.1	55.9	63.6	71.7	73.4
42.5°	1031.6	734.6	86.9	48.0	46.1	46.6	48.5	52.3	58.1	66.1	67.7
45°	1088.1	733.9	63.3	44.7	43.3	44.7	46.1	49.0	53.2	57.8	58.1
47.5°	1130.8	727.2	50.2	41.5	40.6	42.5	43.8	45.6	48.0	47.7	47.7
50°	1170.8	711.1	40.4	37.3	37.9	40.1	40.7	41.4	41.5	38.6	38.2
52.5°	1201.0	686.0	32.4	32.7	35.2	37.4	36.8	35.9	34.3	30.6	30.0
55°	1211.2	637.6	25.4	27.0	31.3	34.1	31.8	29.7	26.7	23.7	23.1
57.5°	1192.8	575.2	20.7	21.1	26.4	28.8	26.1	23.7	20.4	17.9	17.4
60°	1154.0	505.9	17.0	15.8	20.4	22.5	20.7	18.4	15.3	13.4	13.2
62.5°	1076.9	432.0	14.1	12.3	15.5	17.2	16.1	14.3	11.8	10.6	10.4
65°	914.9	345.6	11.4	10.0	12.0	13.4	12.5	11.2	9.3	8.4	8.2
67.5°	638.6	233.6	9.3	8.2	9.5	10.6	9.8	9.1	7.5	7.3	7.5
70°	308.0	112.6	7.7	6.6	7.5	8.2	7.9	7.5	7.1	8.2	9.5
72.5°	88.3	37.7	6.1	5.5	6.0	6.5	6.8	6.6	7.7	10.0	11.6
73°	67.9	30.5	5.9	5.2	5.7	6.3	6.6	6.5	7.9	10.2	11.6
75°	29.1	14.7	4.4	4.3	4.8	5.5	5.9	5.9	7.9	10.2	11.1
77.5°	13.1	7.9	2.9	3.4	4.1	4.4	4.9	4.9	6.3	7.9	7.9
80°	7.5	4.3	2.2	2.5	3.0	3.0	3.0	2.7	2.9	3.2	3.4
82.5°	4.8	2.9	1.8	2.0	1.9	1.6	1.3	1.3	1.1	1.3	1.6
85°	2.7	1.6	1.6	1.3	0.7	0.7	0.7	0.7	0.2	0.0	0.2
87.5°	1.6	0.9	0.5	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)