

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: P526213

Luminaire Tested: **GALN-SA1A-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-827-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2250 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B0 - U0 - G0

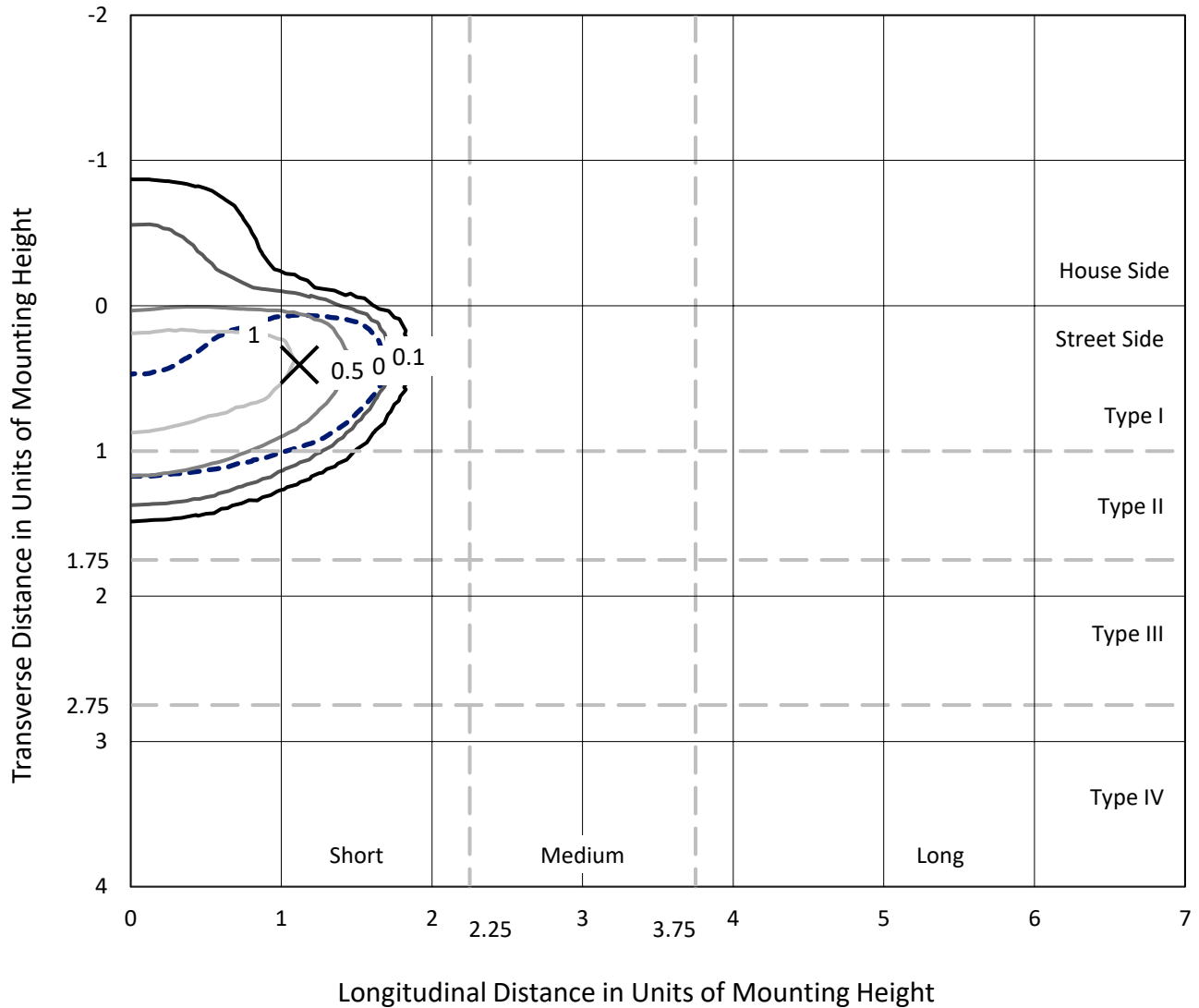
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

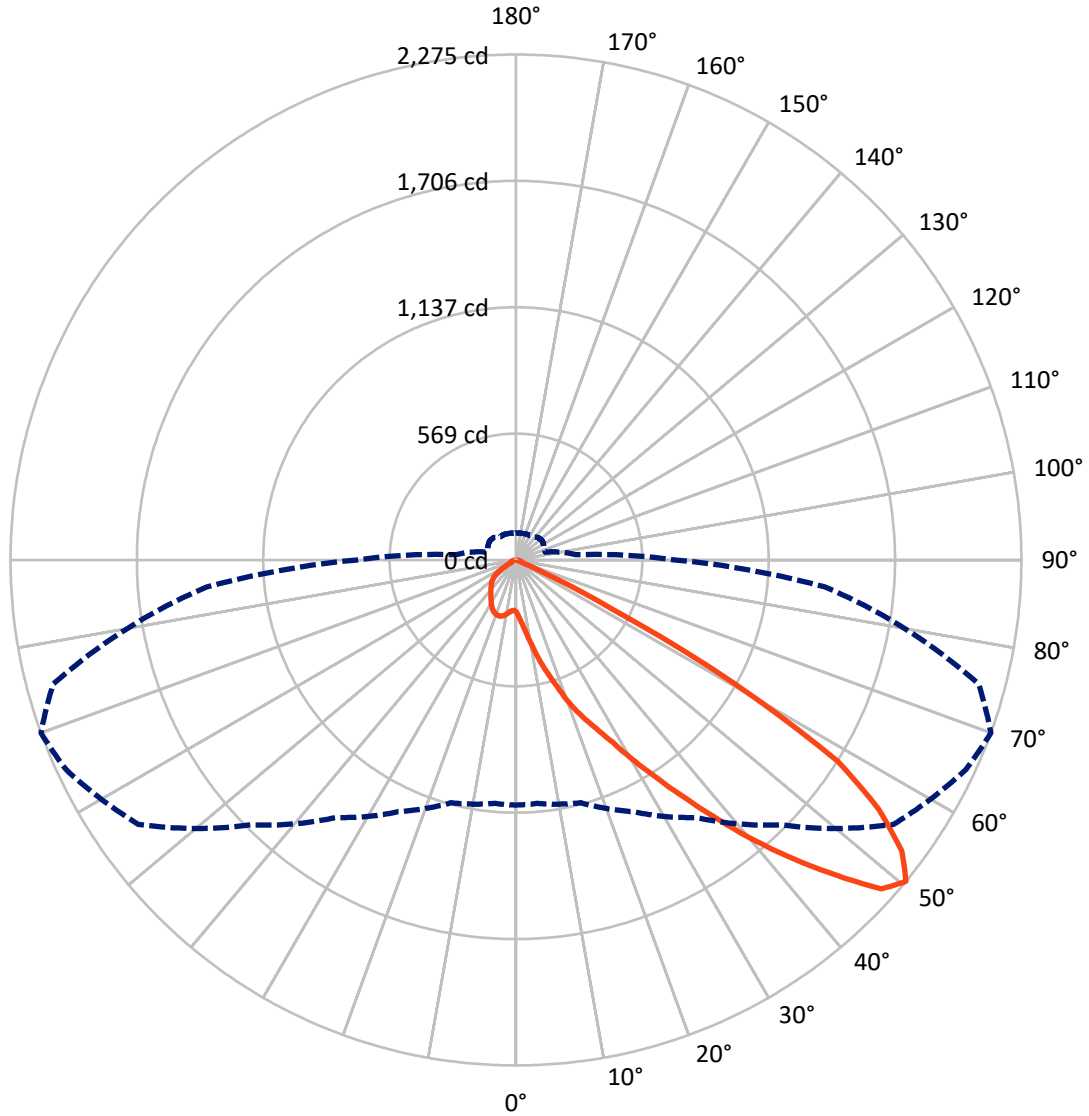
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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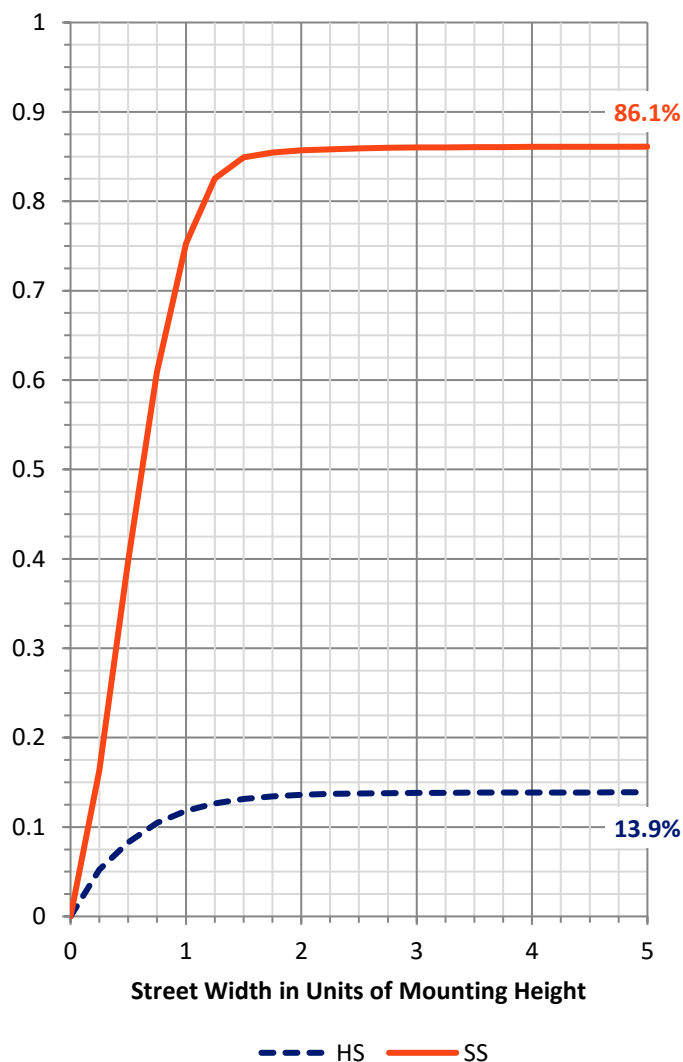
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	314.2	0.0	314.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	1935.8	0.0	1935.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	2250.0	0.0	2250.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.3	1.3
10°-20°	131.1	5.8
20°-30°	275.0	12.2
30°-40°	474.0	21.1
40°-50°	692.8	30.8
50°-60°	539.6	24.0
60°-70°	91.4	4.1
70°-80°	12.6	0.6
80°-90°	3.2	0.1
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°	2250.0	100.0
0°-180°	2250.0	100.0

Coefficient of Utilization



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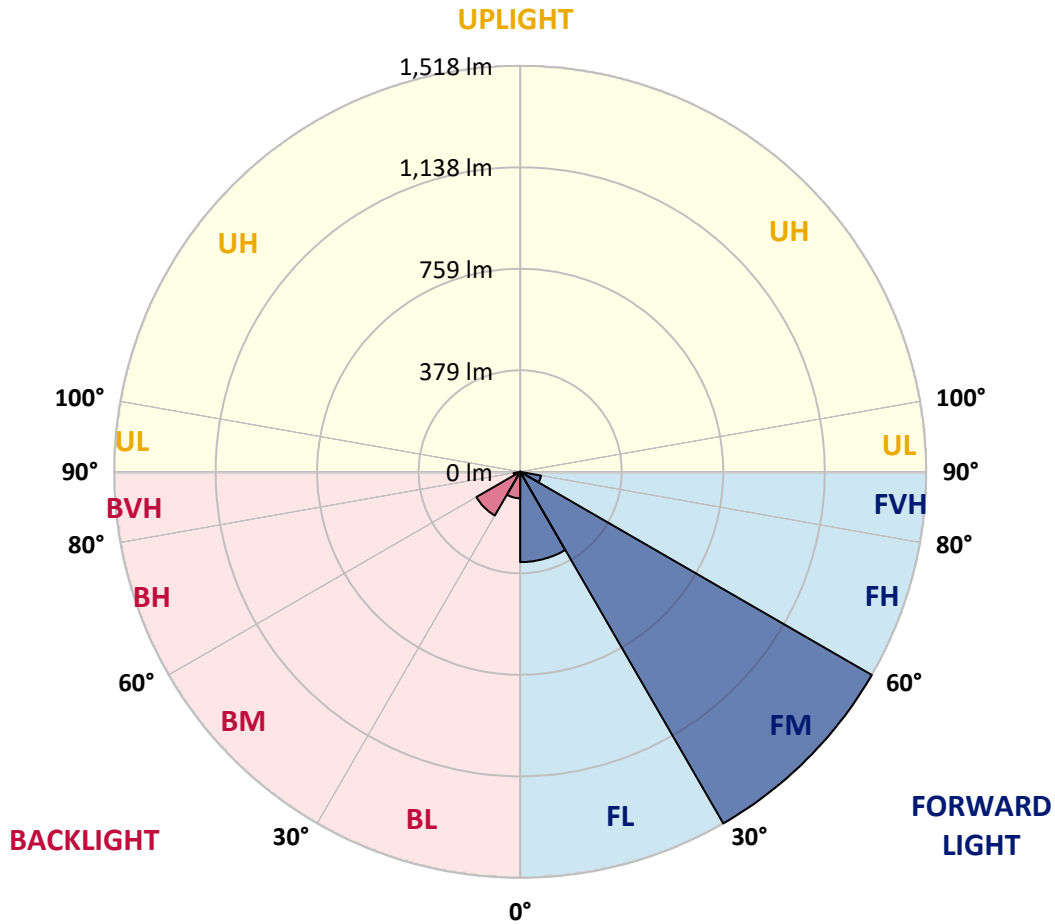
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	337.5	15.0			
FM (30°-60°)	1517.6	67.4			
FH (60°-80°)	79.2	3.5			G0/660
FVH (80°-90°)	1.5	0.1			G0/10
BL (0°-30°)	98.9	4.4	B0/110		
BM (30°-60°)	188.8	8.4	B0/220		
BH (60°-80°)	24.8	1.1	B0/110		G0/110
BVH (80°-90°)	1.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1
2.5°	305.2	303.0	298.2	289.3	285.6	276.7	271.5	261.5	255.3	248.2	240.5
5°	429.9	418.4	411.4	401.4	372.1	354.0	324.1	298.5	286.7	273.7	256.0
7.5°	558.6	551.2	541.6	520.1	500.1	462.4	411.0	354.8	330.7	308.5	273.4
10°	665.1	644.4	643.3	627.4	605.6	560.4	498.7	428.7	385.8	353.3	298.2
12.5°	739.5	720.6	729.1	727.3	706.9	665.5	594.1	501.6	456.9	406.2	323.7
15°	807.2	799.4	796.8	794.6	786.5	755.8	691.8	590.4	525.7	464.6	352.5
17.5°	873.4	853.4	863.0	864.9	864.2	836.4	776.5	674.8	598.5	526.4	382.9
20°	932.2	934.1	921.1	918.5	916.3	915.2	856.8	758.4	688.1	591.1	422.5
22.5°	1007.7	994.7	1006.2	998.8	984.4	975.5	930.7	832.3	765.8	669.2	462.8
25°	1096.8	1107.2	1080.2	1077.2	1061.3	1030.6	990.3	915.2	840.5	741.7	506.4
27.5°	1206.7	1188.6	1181.6	1165.3	1136.4	1123.5	1076.1	1000.7	930.7	817.9	548.6
30°	1301.0	1296.2	1261.1	1241.9	1216.7	1216.3	1150.1	1116.4	1048.4	937.4	606.7
32.5°	1378.0	1356.9	1344.0	1330.6	1310.3	1315.8	1260.0	1242.2	1173.8	1048.4	675.1
35°	1429.4	1414.2	1406.5	1386.1	1380.2	1405.0	1381.7	1374.3	1318.1	1204.5	755.4
37.5°	1445.7	1450.5	1449.0	1423.5	1436.1	1503.0	1533.0	1513.8	1484.2	1369.1	842.3
40°	1460.1	1463.4	1456.0	1486.0	1521.9	1598.1	1706.5	1674.7	1663.6	1535.9	963.3
42.5°	1468.3	1465.7	1465.7	1517.5	1571.8	1725.0	1874.1	1853.0	1844.5	1713.5	1103.1
45°	1433.1	1408.0	1435.0	1505.2	1614.7	1787.5	2008.0	2037.2	2025.0	1924.7	1266.6
47.5°	1301.8	1317.3	1332.5	1426.4	1562.6	1768.3	2090.1	2189.6	2212.2	2102.3	1373.9
50°	1103.1	1099.8	1131.2	1249.6	1415.0	1685.4	2074.2	2233.6	2274.7	2155.6	1396.5
52.5°	802.4	826.8	860.8	978.5	1174.5	1470.8	1868.9	2120.1	2174.8	2090.1	1381.7
55°	467.2	440.2	516.8	616.3	801.3	1109.4	1580.0	1879.2	1980.6	1971.0	1307.0
57.5°	187.2	181.3	207.5	279.7	418.0	687.7	1149.0	1544.1	1706.5	1805.3	1148.6
60°	82.1	80.3	94.3	113.9	170.9	317.0	628.5	960.3	1129.8	1261.5	790.5
62.5°	59.2	58.4	65.5	72.5	90.3	138.0	264.1	386.9	482.4	582.6	354.0
65°	47.7	49.6	54.4	58.1	66.6	76.6	93.2	107.6	132.1	136.9	78.1
67.5°	38.8	40.3	44.8	48.8	50.3	41.4	42.9	37.7	37.7	33.7	27.0
70°	28.5	28.9	34.0	38.8	31.1	16.6	29.2	29.2	26.3	25.2	22.9
72.5°	21.1	21.5	25.5	24.0	12.2	10.4	21.5	23.7	21.5	20.3	18.5
75°	15.5	15.9	13.3	5.5	5.2	6.7	12.6	16.3	15.5	15.2	14.1
77.5°	3.0	2.2	1.8	2.6	3.7	5.5	8.1	10.0	10.4	11.1	10.4
80°	0.4	0.4	1.1	2.2	4.1	5.9	8.5	9.6	10.0	10.4	9.6
82.5°	0.0	0.4	1.1	2.2	4.1	5.5	7.4	8.5	9.2	9.6	9.2
85°	0.0	0.4	0.7	1.8	3.3	4.1	3.7	2.6	2.2	2.6	1.8
87.5°	0.0	0.0	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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°	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1
2.5°	236.0	234.5	229.4	223.8	219.0	221.2	219.0	217.1	217.9	217.1	216.4
5°	249.0	242.3	231.2	226.4	222.3	222.0	220.8	220.5	220.8	220.8	217.5
7.5°	261.2	250.4	238.6	233.4	228.6	229.0	226.4	226.4	226.0	224.2	223.4
10°	279.7	265.2	250.1	240.8	234.9	233.8	231.2	228.6	228.6	228.6	224.9
12.5°	300.0	281.9	261.2	250.4	243.4	237.9	233.8	233.1	229.0	228.2	226.4
15°	317.8	294.8	268.6	253.8	244.9	237.5	231.2	227.1	225.3	224.2	222.7
17.5°	335.2	305.9	272.6	253.8	244.2	235.6	229.0	225.3	220.8	221.6	218.6
20°	358.5	317.8	273.7	249.0	237.1	229.0	220.1	218.3	215.7	213.4	214.2
22.5°	381.0	326.3	270.4	243.0	226.0	216.4	212.0	209.8	208.6	206.8	204.2
25°	401.4	335.5	265.2	232.3	214.2	207.2	203.1	202.7	200.1	200.1	195.3
27.5°	422.1	338.9	256.4	219.7	203.8	199.8	197.9	197.2	196.1	193.5	190.1
30°	445.8	340.0	243.4	206.8	194.6	190.1	192.7	194.6	189.8	185.0	186.4
32.5°	465.4	337.4	227.9	194.6	187.9	185.7	190.9	192.7	187.2	182.0	179.4
35°	489.0	331.1	212.7	185.0	181.3	185.7	190.1	190.1	179.0	172.8	171.3
37.5°	524.9	324.1	198.7	176.8	174.2	183.5	189.4	185.3	167.9	160.2	158.3
40°	563.4	319.6	185.0	168.7	170.5	179.8	183.1	170.5	152.8	148.0	146.5
42.5°	619.3	310.7	172.8	161.7	167.2	174.6	174.6	152.0	145.4	142.8	142.4
45°	688.8	304.5	162.0	155.7	162.4	164.2	158.3	142.4	137.6	136.9	137.2
47.5°	722.8	292.2	150.9	148.7	153.5	153.9	138.4	134.7	130.6	129.5	128.7
50°	717.7	270.4	136.5	139.5	146.1	142.4	126.1	126.9	123.2	122.8	121.0
52.5°	681.4	236.0	122.1	129.1	136.5	125.8	116.2	115.4	115.4	110.6	108.8
55°	604.1	190.1	104.7	113.6	122.4	105.8	103.2	102.5	100.6	96.2	95.1
57.5°	478.3	139.5	78.8	88.4	104.0	89.9	89.5	86.2	81.4	78.1	78.1
60°	284.5	80.3	49.6	54.0	68.8	72.9	81.0	79.5	71.4	66.2	64.7
62.5°	129.8	41.4	31.4	32.2	37.0	47.4	63.6	73.6	62.1	53.3	52.5
65°	43.7	30.7	25.9	24.8	25.5	28.5	38.1	52.2	49.6	41.1	39.6
67.5°	26.6	27.4	24.4	22.6	22.6	22.2	21.8	23.7	29.2	28.5	28.9
70°	22.9	25.2	22.6	20.3	19.6	18.5	15.5	12.9	11.1	12.9	13.7
72.5°	18.5	20.0	19.2	17.4	15.5	14.1	11.1	8.5	6.3	5.5	5.5
75°	13.7	14.8	15.5	13.3	11.8	10.0	8.1	5.5	3.3	2.2	2.2
77.5°	10.0	11.1	11.5	10.4	8.9	7.0	5.2	3.7	1.8	0.7	0.7
80°	8.5	10.0	11.1	10.4	9.2	6.7	4.8	2.6	1.5	0.4	0.4
82.5°	8.1	10.0	11.1	10.0	8.9	6.3	4.8	3.0	1.1	0.4	0.4
85°	1.8	2.6	3.3	4.1	4.8	4.8	3.7	2.2	1.1	0.4	0.4
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.4	0.4	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)