

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: P594222

Luminaire Tested: **ISC-PA1D-735-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISC-PA1D-735-U-T3-HSS
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6018 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

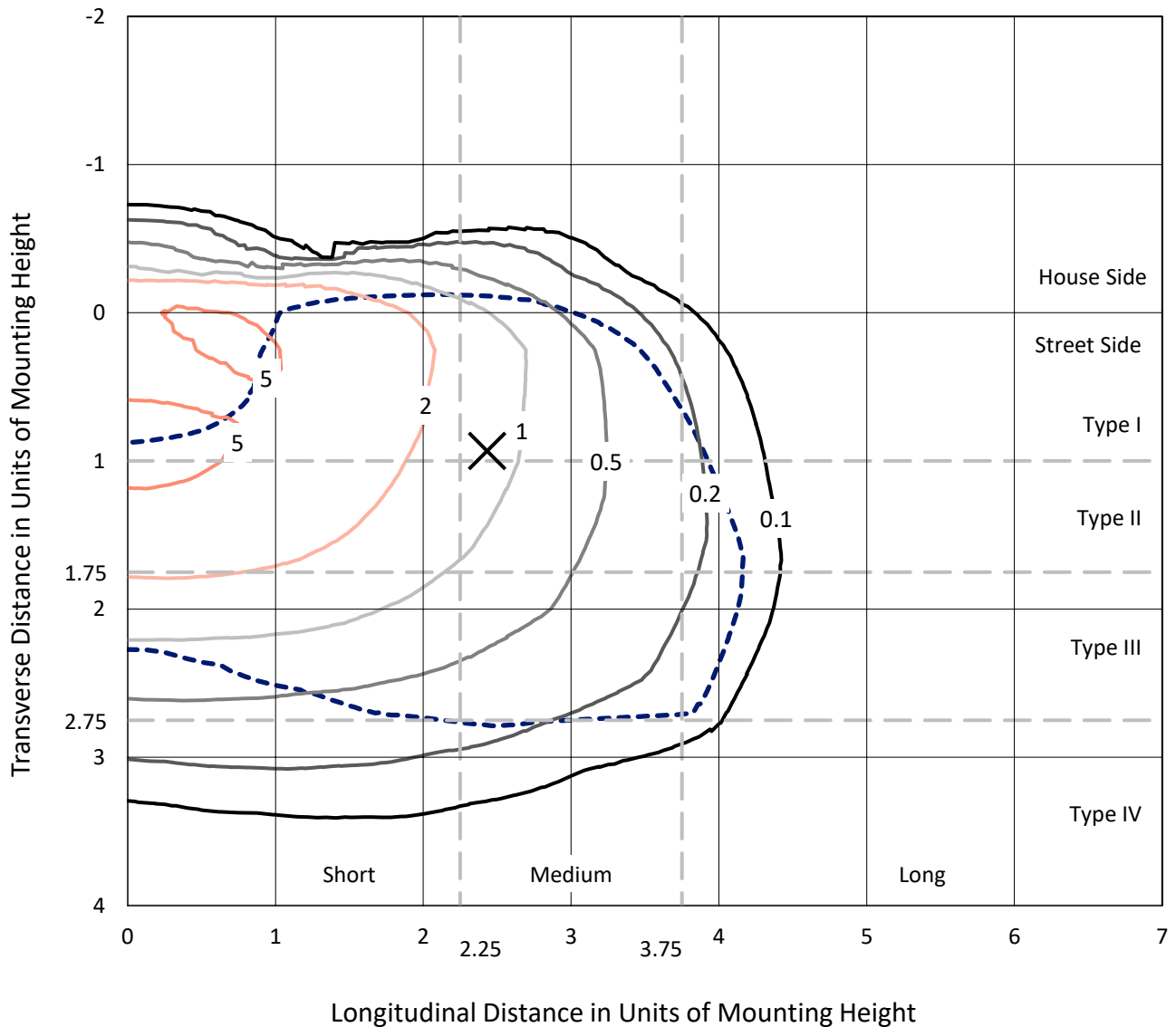
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

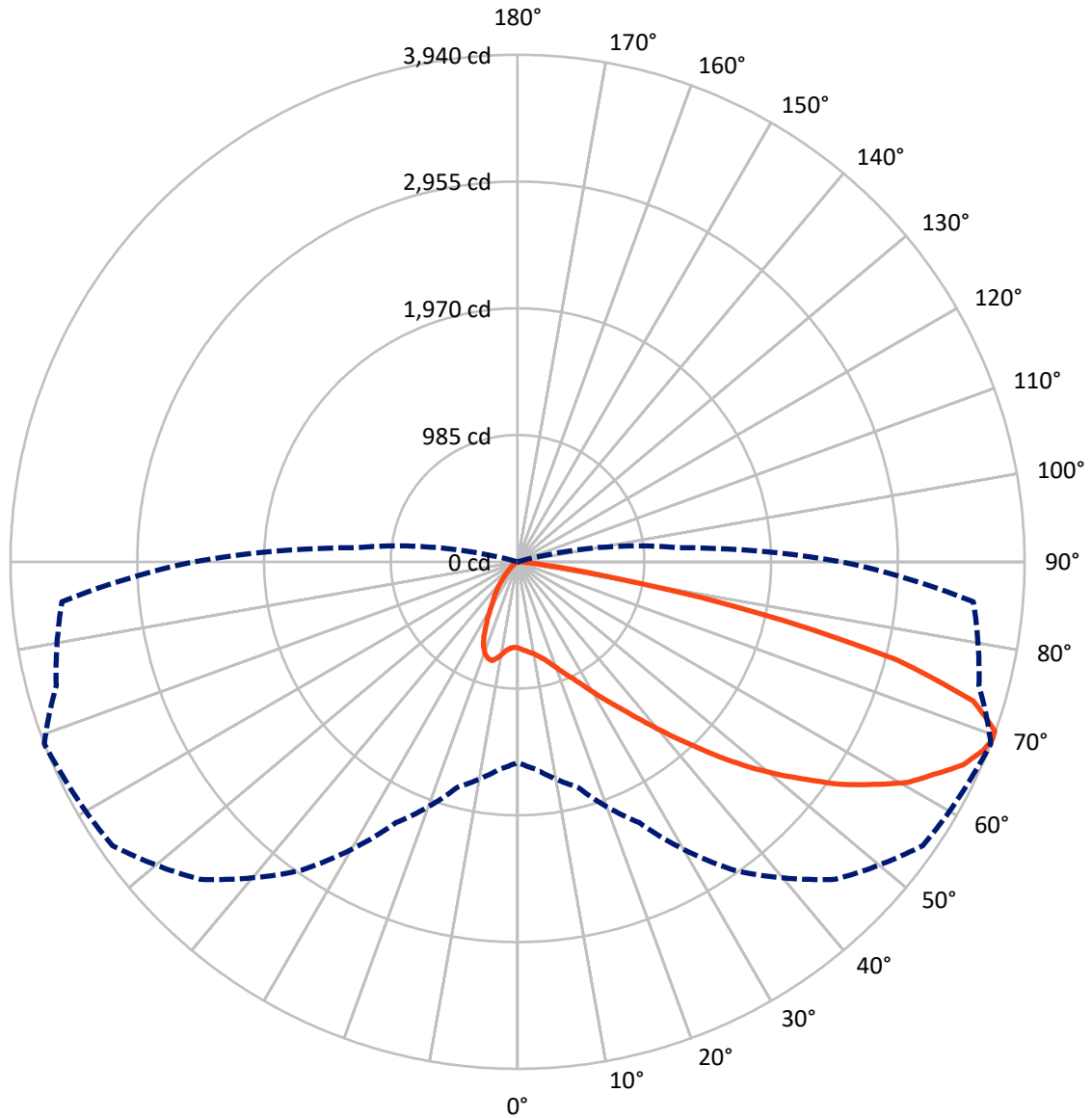
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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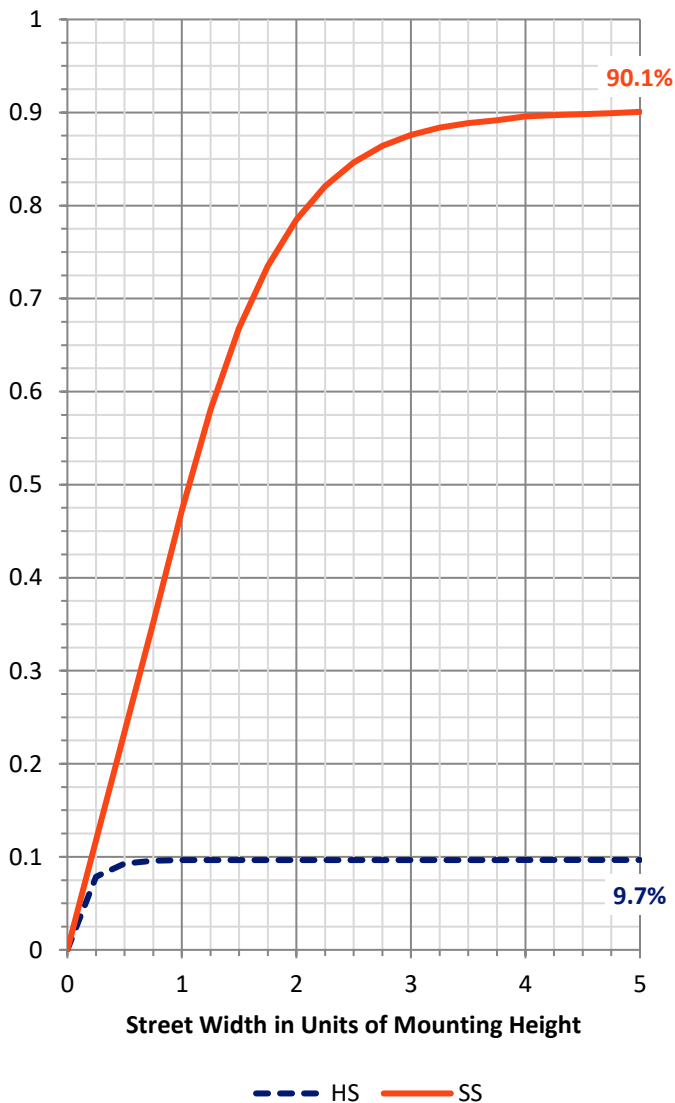
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	586.4	0.0	586.4
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	5431.6	0.0	5431.6
	% Fixture	90.3	0.0	90.3
Total	Lumens	6018.0	0.0	6018.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	1.1
10°-20°	168.9	2.8
20°-30°	281.2	4.7
30°-40°	506.2	8.4
40°-50°	917.9	15.3
50°-60°	1434.4	23.8
60°-70°	1659.6	27.6
70°-80°	928.1	15.4
80°-90°	57.9	1.0
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°	6018.0	100.0
0°-180°	6018.0	100.0

Coefficient of Utilization

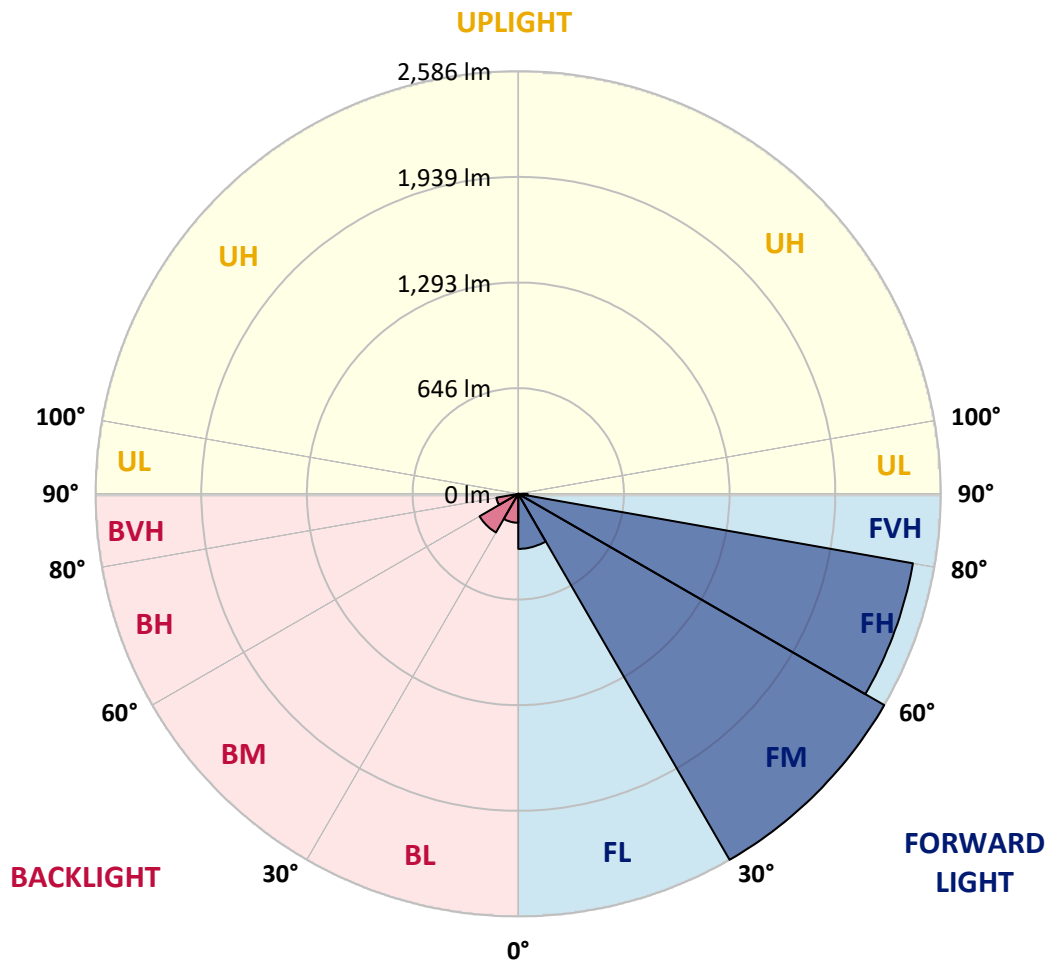


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	336.7	5.6			
FM (30°-60°)	2585.5	43.0			
FH (60°-80°)	2451.9	40.7			G2/5000
FVH (80°-90°)	57.5	1.0			G1/100
BL (0°-30°)	177.2	2.9	B1/500		
BM (30°-60°)	273.0	4.5	B1/1000		
BH (60°-80°)	135.8	2.3	B1/500		G1/500
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: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	669.4	669.4	669.4	669.4	669.4	669.4	669.4	669.4	669.4	669.4	669.4
2.5°	693.5	693.5	693.5	689.4	691.5	689.4	687.4	681.4	683.4	681.4	675.4
5°	669.4	671.4	677.4	681.4	691.5	695.5	697.5	697.5	695.5	691.5	687.4
7.5°	623.3	623.3	629.3	641.3	661.4	683.4	701.5	711.5	713.5	713.5	707.5
10°	611.3	611.3	619.3	627.3	647.4	673.4	701.5	725.5	729.5	733.5	731.5
12.5°	605.3	607.3	615.3	629.3	655.4	679.4	709.5	743.6	755.6	765.6	767.6
15°	613.3	613.3	621.3	635.3	665.4	699.5	737.5	775.6	787.7	801.7	811.7
17.5°	625.3	629.3	633.3	647.4	675.4	717.5	767.6	817.7	831.7	849.8	857.8
20°	645.4	645.4	649.4	661.4	691.5	741.6	811.7	871.8	883.9	895.9	905.9
22.5°	669.4	671.4	671.4	681.4	715.5	769.6	849.8	923.9	944.0	950.0	954.0
25°	741.6	737.5	723.5	717.5	743.6	801.7	895.9	986.1	1008.1	1014.1	1006.1
27.5°	891.9	875.8	837.8	797.7	793.7	851.8	958.0	1064.2	1088.3	1090.3	1062.2
30°	1080.3	1082.3	1020.1	934.0	875.8	905.9	1026.2	1162.4	1186.5	1176.5	1132.4
32.5°	1312.8	1302.7	1256.6	1132.4	1016.1	990.1	1100.3	1264.7	1292.7	1276.7	1218.6
35°	1511.2	1517.2	1461.1	1350.8	1204.5	1120.4	1190.5	1378.9	1413.0	1384.9	1312.8
37.5°	1677.5	1685.5	1651.5	1561.3	1431.0	1298.7	1308.7	1513.2	1559.3	1531.2	1441.0
40°	1861.9	1867.9	1853.9	1755.7	1639.4	1511.2	1467.1	1667.5	1729.6	1691.6	1597.4
42.5°	2064.3	2086.4	2062.3	1984.2	1863.9	1753.7	1687.5	1855.9	1918.0	1894.0	1767.7
45°	2340.9	2342.9	2314.9	2236.7	2112.4	2022.2	1942.1	2056.3	2136.5	2106.4	1958.1
47.5°	2545.3	2559.4	2543.3	2489.2	2389.0	2328.9	2218.7	2276.8	2361.0	2322.9	2154.5
50°	2701.7	2739.8	2725.7	2741.8	2691.7	2665.6	2497.2	2505.3	2587.4	2555.4	2354.9
52.5°	2787.9	2836.0	2840.0	2922.1	2964.2	3028.4	2767.8	2755.8	2807.9	2779.8	2559.4
55°	2775.8	2787.9	2888.1	3038.4	3202.7	3349.0	3032.4	2982.3	3054.4	2976.2	2775.8
57.5°	2659.6	2689.6	2866.0	3052.4	3343.0	3555.5	3260.8	3204.7	3264.9	3160.6	2998.3
60°	2493.2	2537.3	2763.8	3030.4	3425.2	3679.7	3483.3	3427.2	3481.3	3355.0	3250.8
62.5°	2342.9	2363.0	2571.4	2938.2	3377.1	3673.7	3655.7	3603.6	3635.6	3503.4	3467.3
65°	2128.5	2136.5	2342.9	2771.8	3270.9	3633.6	3749.9	3769.9	3804.0	3627.6	3621.6
67.5°	1797.8	1815.8	2020.2	2481.2	3094.5	3555.5	3824.0	3864.1	3904.2	3693.8	3649.7
69°	1559.3	1617.4	1813.8	2236.7	2924.1	3489.3	3844.1	3908.2	3940.3	3711.8	3555.5
70°	1364.9	1415.0	1641.4	2048.3	2773.8	3415.2	3858.1	3902.2	3934.3	3673.7	3401.1
72.5°	685.4	749.6	1060.2	1495.1	2204.6	3076.5	3785.9	3737.8	3703.8	3379.1	2751.8
75°	264.6	274.6	455.0	851.8	1378.9	2258.7	3232.8	3142.6	3042.4	2563.4	1631.4
77.5°	146.3	144.3	198.4	376.8	587.2	1104.3	2186.6	2042.3	1904.0	1376.9	661.4
80°	62.1	66.1	86.2	180.4	308.6	382.8	1062.2	944.0	751.6	436.9	158.3
82.5°	38.1	40.1	60.1	110.2	214.5	146.3	344.7	294.6	216.5	118.2	38.1
85°	12.0	14.0	42.1	74.2	104.2	60.1	78.2	68.1	60.1	50.1	12.0
87.5°	2.0	2.0	16.0	40.1	28.1	10.0	8.0	14.0	22.0	24.1	4.0
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°	669.4	669.4	669.4	669.4	669.4	669.4	669.4	669.4	669.4	669.4	669.4
2.5°	673.4	669.4	665.4	663.4	663.4	659.4	657.4	655.4	655.4	653.4	653.4
5°	681.4	677.4	673.4	671.4	667.4	665.4	665.4	665.4	663.4	665.4	667.4
7.5°	701.5	695.5	693.5	691.5	691.5	685.4	675.4	649.4	623.3	615.3	607.3
10°	729.5	727.5	727.5	727.5	713.5	661.4	589.2	525.1	491.0	463.0	463.0
12.5°	769.6	769.6	767.6	761.6	689.4	563.2	450.9	354.7	298.6	266.6	270.6
15°	813.7	811.7	815.7	777.6	607.3	434.9	272.6	192.4	162.3	158.3	158.3
17.5°	859.8	863.8	859.8	735.5	499.0	268.6	162.3	146.3	142.3	142.3	142.3
20°	907.9	903.9	897.9	663.4	362.8	168.4	140.3	136.3	132.3	130.3	130.3
22.5°	956.0	952.0	911.9	571.2	226.5	138.3	132.3	124.3	118.2	116.2	116.2
25°	1002.1	1002.1	885.9	453.0	154.3	130.3	120.3	112.2	106.2	100.2	100.2
27.5°	1060.2	1064.2	843.8	316.7	130.3	120.3	108.2	96.2	88.2	84.2	84.2
30°	1126.4	1132.4	775.6	206.4	118.2	106.2	94.2	80.2	68.1	64.1	62.1
32.5°	1204.5	1210.5	697.5	136.3	106.2	92.2	78.2	60.1	48.1	46.1	44.1
35°	1304.7	1290.7	603.3	108.2	92.2	78.2	60.1	42.1	34.1	32.1	32.1
37.5°	1429.0	1398.9	495.0	94.2	78.2	62.1	44.1	28.1	22.0	22.0	20.0
40°	1571.3	1487.1	382.8	84.2	66.1	48.1	28.1	18.0	14.0	14.0	14.0
42.5°	1727.6	1561.3	272.6	74.2	54.1	34.1	18.0	10.0	8.0	8.0	8.0
45°	1908.0	1629.4	186.4	64.1	46.1	24.1	10.0	4.0	4.0	4.0	4.0
47.5°	2088.4	1673.5	124.3	56.1	34.1	14.0	6.0	2.0	2.0	2.0	2.0
50°	2270.8	1707.6	96.2	48.1	24.1	8.0	2.0	0.0	0.0	0.0	0.0
52.5°	2433.1	1731.6	78.2	40.1	16.0	6.0	2.0	0.0	0.0	0.0	0.0
55°	2573.4	1733.6	68.1	32.1	12.0	4.0	0.0	0.0	0.0	0.0	0.0
57.5°	2715.7	1717.6	58.1	24.1	8.0	2.0	0.0	0.0	0.0	0.0	0.0
60°	2801.9	1675.5	46.1	18.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0
62.5°	2854.0	1605.4	36.1	12.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
65°	2823.9	1517.2	26.1	8.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
67.5°	2683.6	1380.9	18.0	6.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
69°	2517.3	1256.6	16.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
70°	2371.0	1160.4	14.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
72.5°	1765.7	747.6	12.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
75°	992.1	250.5	8.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	372.8	64.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	82.2	16.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.0	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)