

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: P594704

Luminaire Tested: **ISS-PA1D-730-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1D-730-U-T2R-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6561 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G2

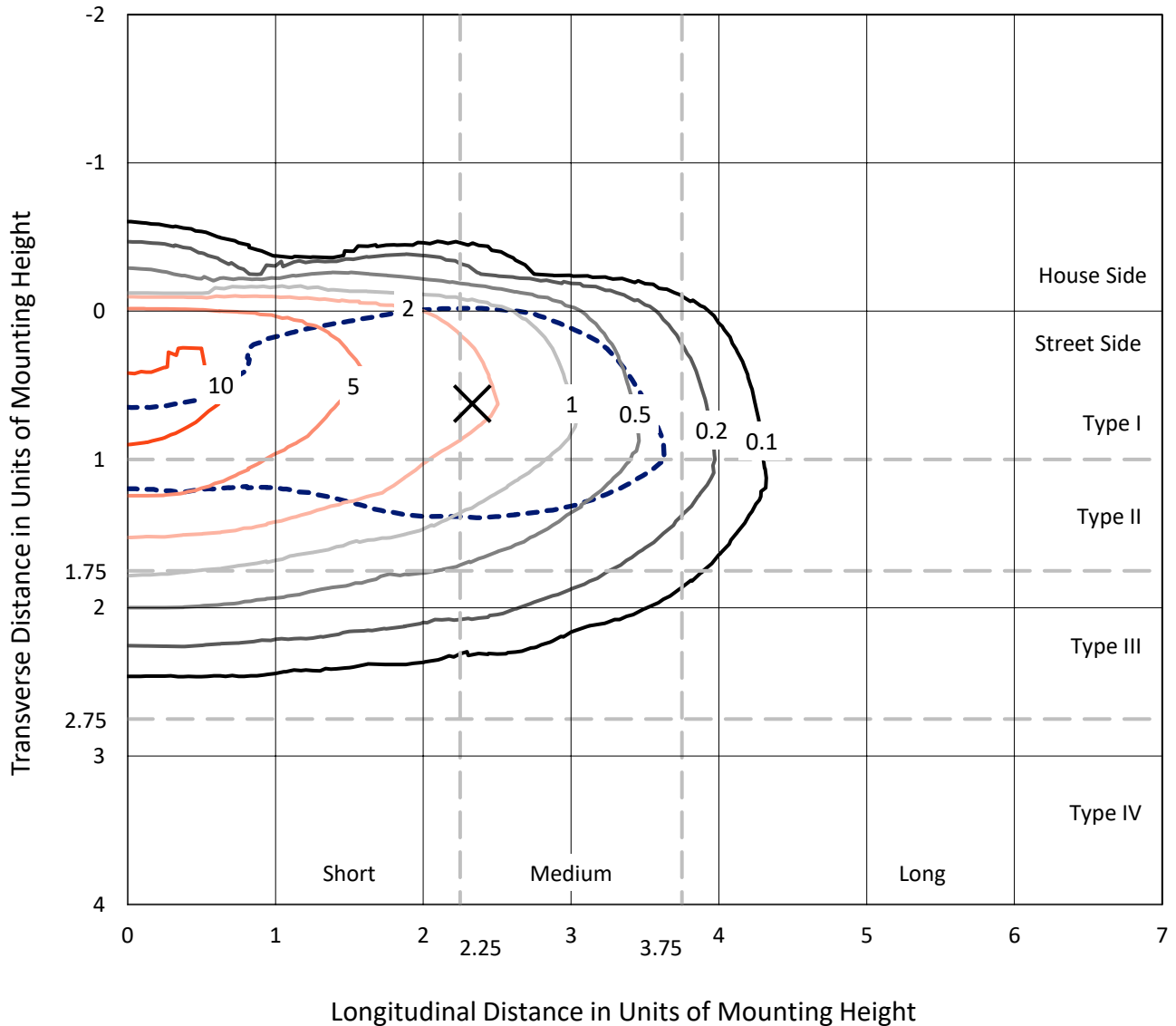
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

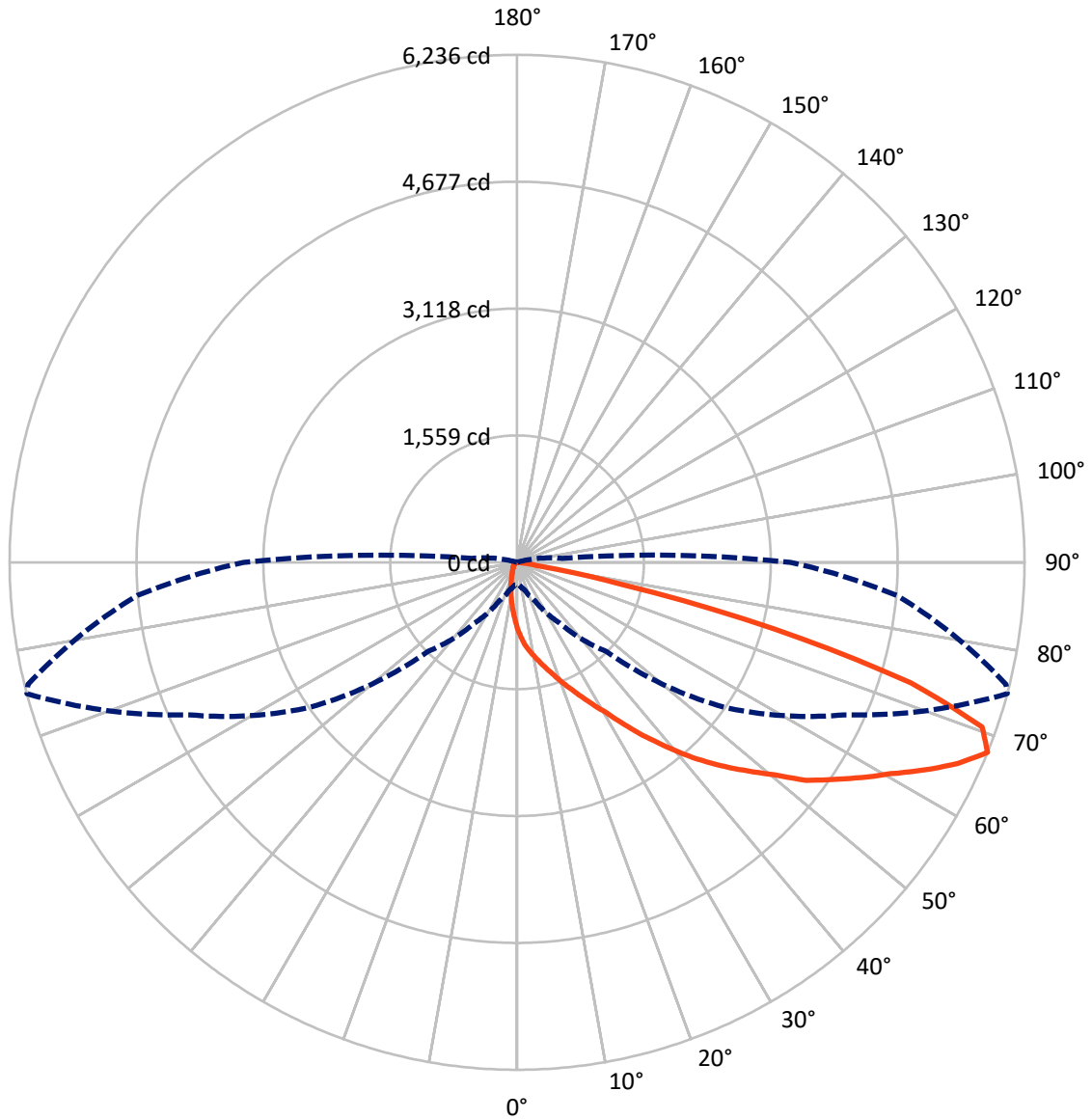
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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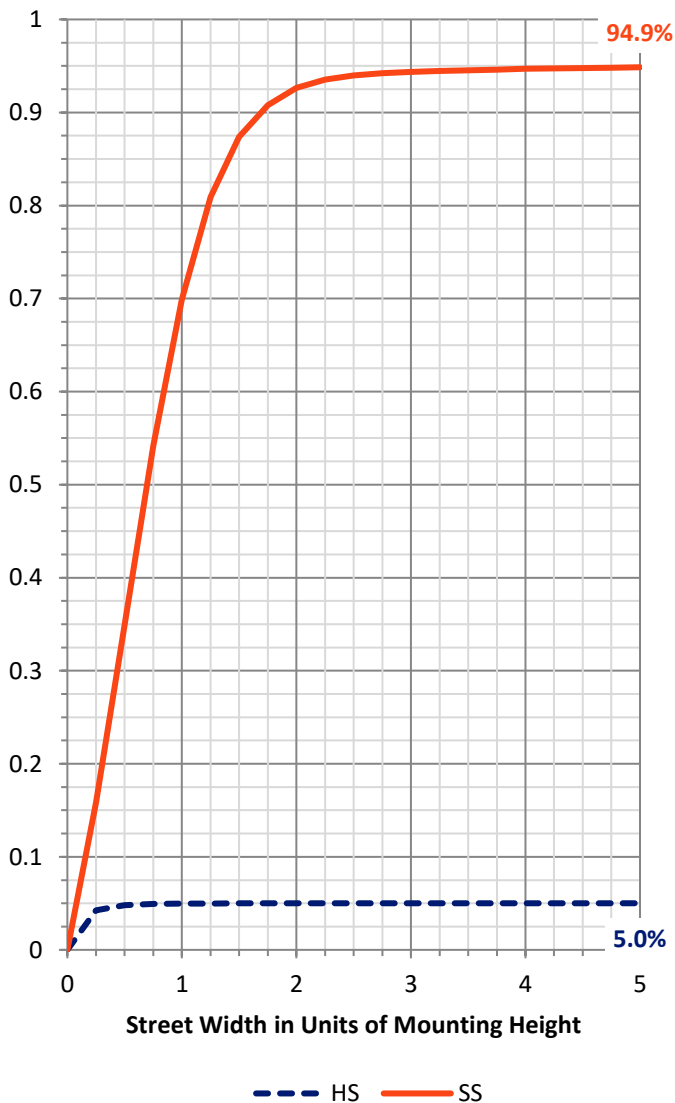
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	330.8	0.0	330.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	6230.2	0.0	6230.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	6561.0	0.0	6561.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	1.1
10°-20°	237.3	3.6
20°-30°	477.1	7.3
30°-40°	902.4	13.8
40°-50°	1349.9	20.6
50°-60°	1558.6	23.8
60°-70°	1381.5	21.1
70°-80°	558.4	8.5
80°-90°	22.3	0.3
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°	6561.0	100.0
0°-180°	6561.0	100.0

Coefficient of Utilization



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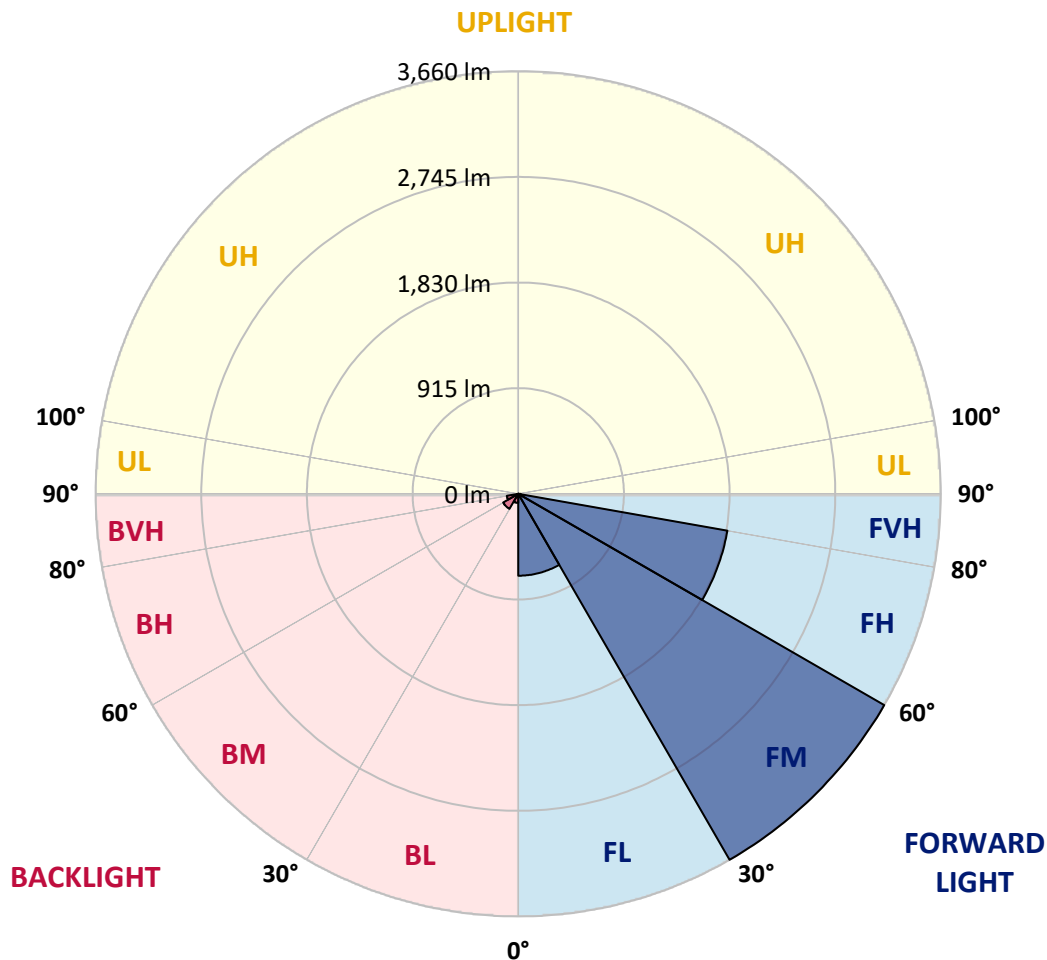
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	709.3	10.8			
FM (30°-60°)	3660.0	55.8			
FH (60°-80°)	1839.6	28.0			G2/5000
FVH (80°-90°)	21.3	0.3			G1/100
BL (0°-30°)	78.6	1.2	B0/110		
BM (30°-60°)	150.9	2.3	B0/220		
BH (60°-80°)	100.3	1.5	B0/110		G0/110
BVH (80°-90°)	1.0	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	815.4	815.4	815.4	815.4	815.4	815.4	815.4	815.4	815.4	815.4	815.4
2.5°	1134.4	1138.4	1130.5	1112.8	1097.0	1059.6	1030.1	976.9	919.8	919.8	850.8
5°	1268.4	1264.4	1260.5	1246.7	1234.9	1203.4	1164.0	1106.9	1018.2	1010.4	896.1
7.5°	1333.4	1329.4	1321.5	1315.6	1315.6	1294.0	1256.5	1197.5	1099.0	1091.1	937.5
10°	1410.2	1402.3	1402.3	1386.5	1382.6	1357.0	1337.3	1286.1	1177.8	1167.9	984.8
12.5°	1500.8	1492.9	1494.9	1481.1	1475.2	1447.6	1420.0	1370.8	1262.5	1252.6	1039.9
15°	1552.0	1548.0	1559.9	1561.8	1565.8	1542.1	1516.5	1465.3	1357.0	1343.2	1104.9
17.5°	1581.5	1581.5	1595.3	1620.9	1650.4	1636.7	1617.0	1575.6	1453.5	1445.6	1173.8
20°	1638.6	1632.7	1656.4	1680.0	1717.4	1729.2	1723.3	1691.8	1569.7	1546.1	1248.7
22.5°	1733.2	1725.3	1747.0	1776.5	1821.8	1825.7	1829.7	1813.9	1687.9	1664.2	1327.5
25°	1955.7	1936.0	1916.3	1912.4	1930.1	1945.9	1934.1	1945.9	1821.8	1800.1	1412.1
27.5°	2389.0	2355.5	2261.0	2156.6	2083.7	2097.5	2060.1	2081.8	1975.4	1947.8	1490.9
30°	2804.6	2771.1	2694.3	2509.2	2341.7	2266.9	2211.8	2203.9	2133.0	2101.5	1581.5
32.5°	3094.1	3072.4	3021.2	2897.2	2688.4	2497.3	2391.0	2353.6	2343.7	2294.5	1697.7
35°	3291.1	3271.4	3235.9	3135.5	2981.8	2769.1	2586.0	2503.2	2578.1	2519.0	1829.7
37.5°	3409.2	3395.4	3356.0	3287.1	3204.4	3064.6	2828.2	2696.3	2814.4	2759.3	1999.1
40°	3495.9	3460.4	3432.9	3379.7	3352.1	3306.8	3103.9	2897.2	3070.5	3013.4	2166.5
42.5°	3503.8	3488.0	3466.3	3434.8	3438.8	3468.3	3397.4	3129.6	3328.5	3275.3	2343.7
45°	3501.8	3486.0	3470.3	3438.8	3458.5	3568.8	3633.7	3373.8	3580.6	3525.4	2530.8
47.5°	3444.7	3432.9	3436.8	3436.8	3462.4	3612.1	3816.9	3621.9	3832.7	3779.5	2757.3
50°	3243.8	3255.6	3334.4	3375.7	3421.0	3614.1	3944.9	3881.9	4104.5	4067.0	2975.9
52.5°	2607.6	2674.6	2993.7	3212.3	3344.2	3574.7	4027.6	4155.7	4449.1	4392.0	3224.1
55°	1993.1	1997.1	2304.3	2812.5	3192.6	3503.8	4074.9	4340.8	4711.1	4679.6	3442.7
57.5°	1617.0	1615.0	1766.7	2223.6	2798.7	3391.5	4086.7	4476.7	4988.8	4929.7	3694.8
60°	1321.5	1313.7	1404.3	1685.9	2286.6	3127.6	4043.4	4587.0	5274.3	5252.7	3958.7
62.5°	955.2	963.1	1083.2	1301.8	1762.7	2641.1	3950.8	4620.5	5619.0	5597.3	4254.1
65°	549.5	573.1	705.1	937.5	1351.1	2066.0	3686.9	4594.9	5955.8	5953.8	4527.9
67.5°	275.7	277.7	348.6	523.9	907.9	1546.1	3103.9	4433.4	6235.5	6192.1	4685.5
70°	177.3	181.2	204.8	269.8	502.2	1071.4	2371.3	3976.4	6060.2	6044.4	4455.0
72.5°	135.9	139.8	159.5	177.3	261.9	608.6	1605.2	3090.2	5059.7	5016.3	3474.2
75°	106.4	108.3	128.0	143.8	175.3	285.6	805.5	1926.2	3259.5	3147.3	1977.4
77.5°	84.7	86.7	96.5	114.2	133.9	159.5	238.3	866.6	1325.5	1183.7	642.1
80°	55.1	57.1	72.9	88.6	114.2	104.4	92.6	250.1	283.6	256.0	114.2
82.5°	31.5	33.5	49.2	70.9	86.7	59.1	53.2	72.9	67.0	65.0	35.5
85°	9.8	9.8	33.5	49.2	39.4	17.7	33.5	25.6	21.7	19.7	11.8
87.5°	2.0	2.0	15.8	17.7	5.9	2.0	3.9	5.9	7.9	9.8	5.9
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°	815.4	815.4	815.4	815.4	815.4	815.4	815.4	815.4	815.4	815.4	815.4
2.5°	817.3	778.0	705.1	642.1	581.0	527.8	490.4	456.9	433.3	427.4	417.5
5°	823.3	746.4	606.6	488.4	386.0	303.3	256.0	224.5	208.8	198.9	198.9
7.5°	829.2	714.9	514.0	356.5	244.2	185.1	155.6	141.8	135.9	133.9	132.0
10°	841.0	691.3	435.3	256.0	167.4	139.8	128.0	122.1	118.2	116.2	116.2
12.5°	860.7	671.6	362.4	189.1	137.9	124.1	116.2	108.3	104.4	102.4	102.4
15°	886.3	657.8	299.4	151.7	126.0	112.3	102.4	94.5	88.6	86.7	86.7
17.5°	921.7	648.0	246.2	133.9	116.2	100.4	88.6	80.7	74.8	72.9	72.9
20°	957.2	648.0	202.9	124.1	106.4	88.6	76.8	67.0	61.1	59.1	59.1
22.5°	1004.5	646.0	169.4	114.2	94.5	76.8	65.0	53.2	49.2	47.3	47.3
25°	1043.8	646.0	145.7	104.4	82.7	67.0	53.2	43.3	39.4	37.4	37.4
27.5°	1091.1	640.1	124.1	92.6	70.9	55.1	43.3	35.5	31.5	29.5	29.5
30°	1132.5	632.2	110.3	82.7	61.1	45.3	35.5	27.6	25.6	25.6	25.6
32.5°	1201.4	626.3	98.5	70.9	51.2	37.4	27.6	21.7	19.7	19.7	19.7
35°	1284.1	626.3	90.6	61.1	43.3	31.5	21.7	17.7	15.8	15.8	15.8
37.5°	1392.4	632.2	80.7	53.2	35.5	25.6	17.7	13.8	11.8	11.8	11.8
40°	1506.7	646.0	72.9	47.3	31.5	19.7	13.8	9.8	7.9	9.8	9.8
42.5°	1642.6	659.8	65.0	41.4	25.6	15.8	9.8	5.9	3.9	5.9	5.9
45°	1776.5	673.6	61.1	35.5	21.7	11.8	5.9	3.9	2.0	3.9	3.9
47.5°	1941.9	707.1	57.1	31.5	17.7	9.8	3.9	2.0	0.0	2.0	2.0
50°	2133.0	744.5	51.2	25.6	13.8	7.9	3.9	0.0	0.0	0.0	0.0
52.5°	2316.1	776.0	45.3	21.7	11.8	5.9	2.0	0.0	0.0	0.0	0.0
55°	2499.3	795.7	39.4	17.7	9.8	5.9	2.0	0.0	0.0	0.0	0.0
57.5°	2696.3	807.5	35.5	15.8	7.9	3.9	2.0	0.0	0.0	0.0	0.0
60°	2914.9	807.5	29.5	13.8	5.9	3.9	2.0	0.0	0.0	0.0	0.0
62.5°	3157.1	783.9	27.6	11.8	5.9	3.9	2.0	0.0	0.0	0.0	0.0
65°	3354.1	699.2	23.6	9.8	5.9	3.9	2.0	0.0	0.0	0.0	0.0
67.5°	3362.0	553.4	21.7	7.9	5.9	3.9	2.0	0.0	0.0	0.0	0.0
70°	2997.6	378.1	17.7	5.9	3.9	3.9	2.0	0.0	0.0	0.0	0.0
72.5°	2243.3	202.9	15.8	5.9	3.9	2.0	2.0	0.0	0.0	0.0	0.0
75°	1209.3	78.8	9.8	5.9	3.9	2.0	2.0	0.0	0.0	0.0	0.0
77.5°	352.5	39.4	5.9	3.9	3.9	2.0	2.0	0.0	0.0	0.0	0.0
80°	65.0	19.7	3.9	3.9	3.9	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.7	7.9	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	7.9	3.9	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	2.0	2.0	2.0	2.0	2.0	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)