

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: STREETWORKS

Report Number: P836112

Luminaire Tested: **ARCH3-140-730-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-140-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

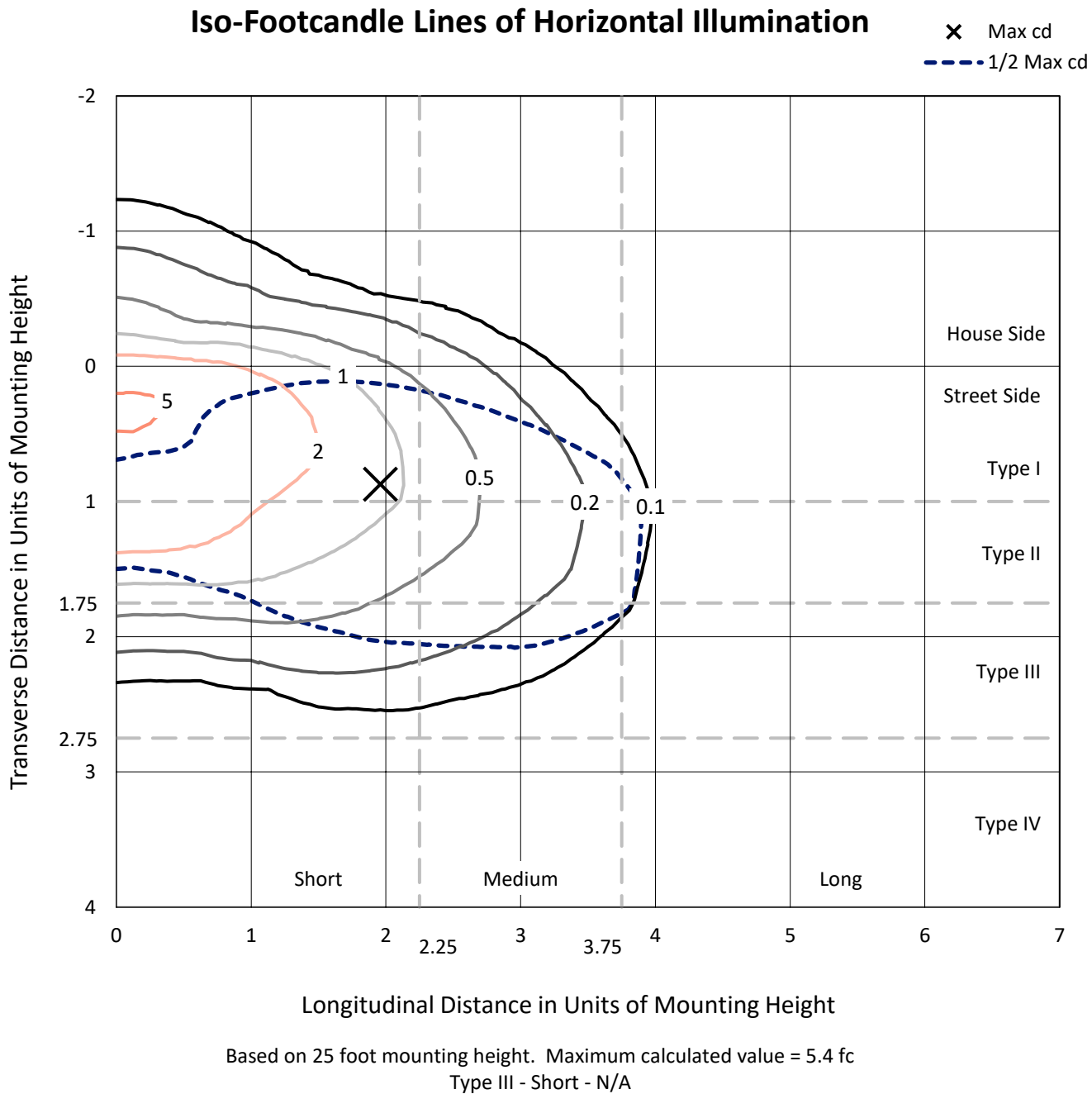
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14095 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 142.5
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

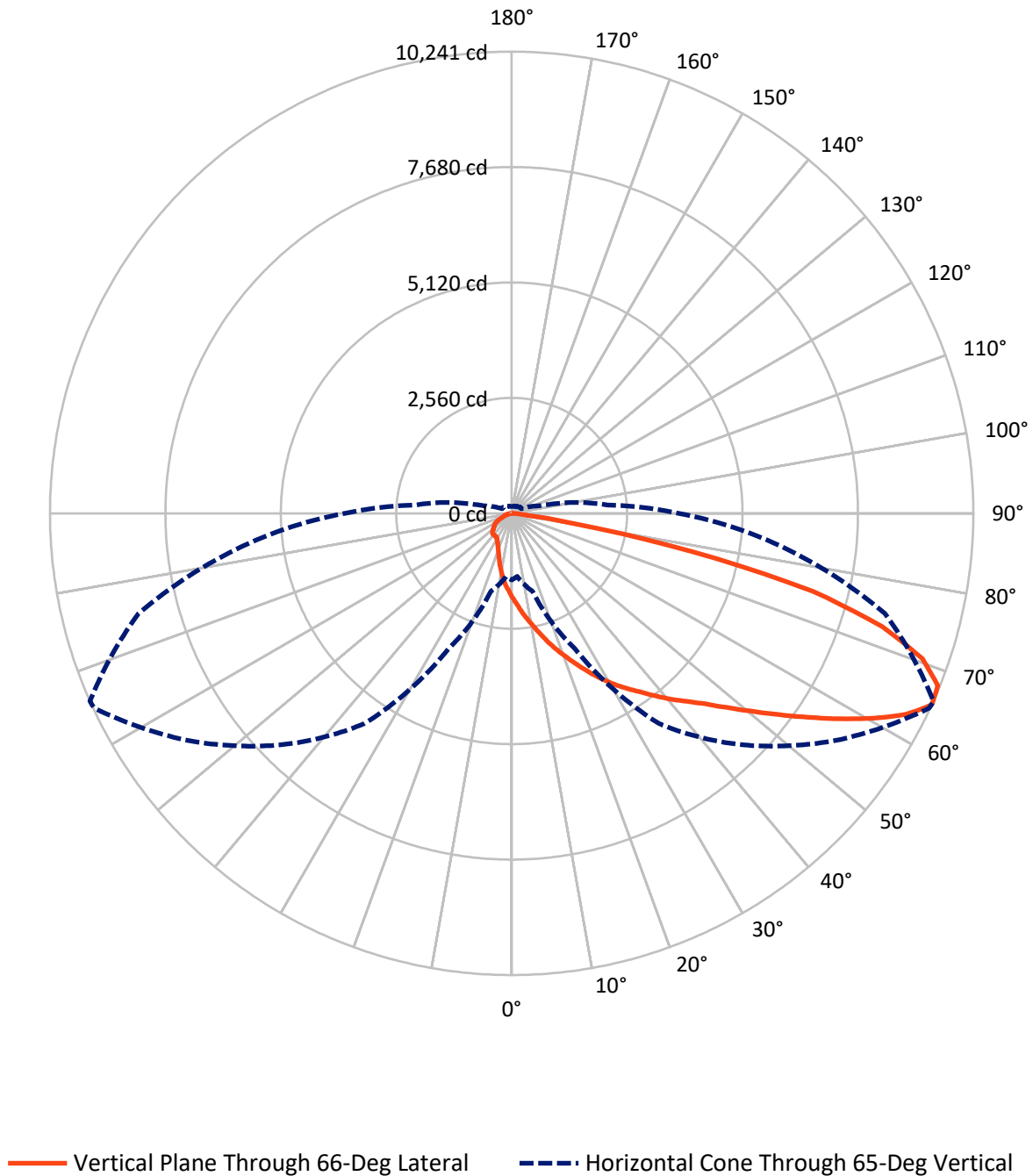


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1490.9	0.0	1490.9
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	12604.1	0.0	12604.1
	% Fixture	89.4	0.0	89.4
Total	Lumens	14095.0	0.0	14095.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.1	1.3
10°-20°	600.1	4.3
20°-30°	1085.7	7.7
30°-40°	1697.8	12.0
40°-50°	2575.6	18.3
50°-60°	3272.3	23.2
60°-70°	3057.6	21.7
70°-80°	1519.6	10.8
80°-90°	102.1	0.7
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°	14095.0	100.0
0°-180°	14095.0	100.0

Coefficient of Utilization



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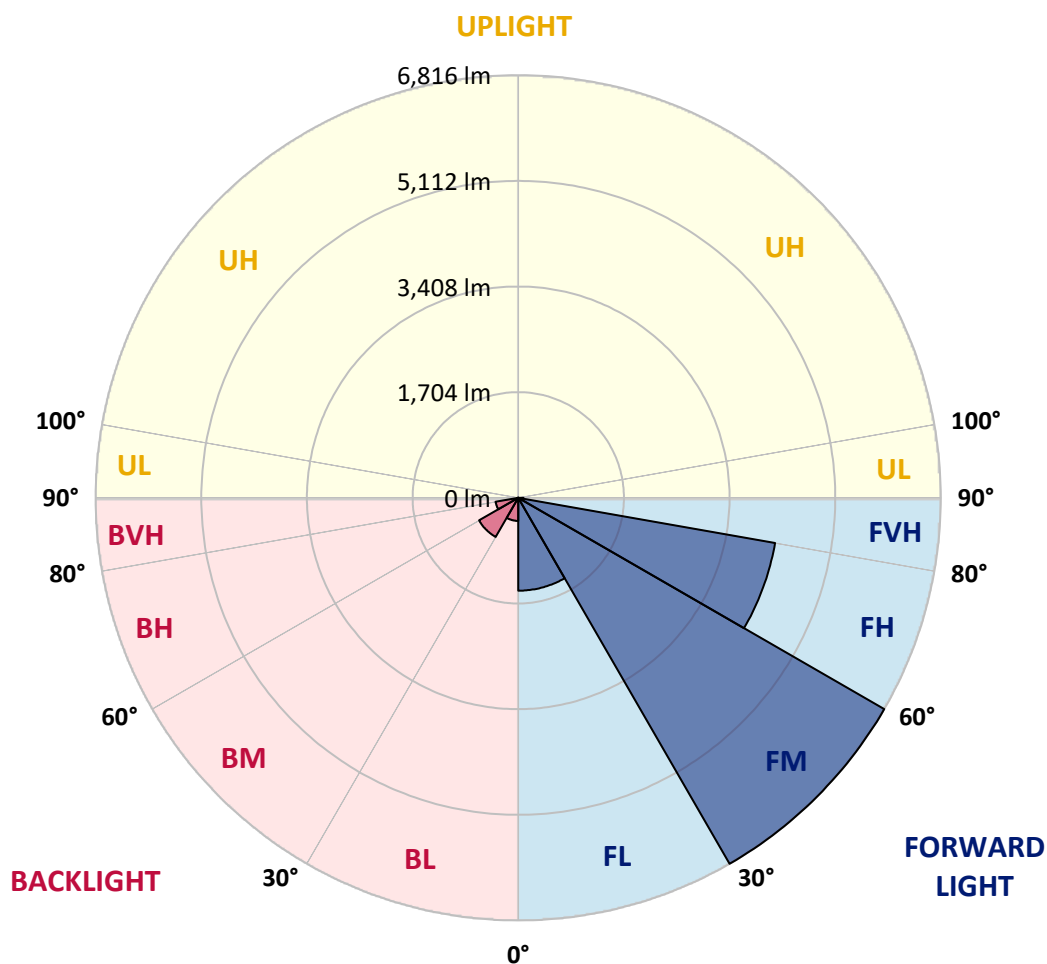
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1497.6	10.6			
FM	(30°-60°)	6816.5	48.4			
FH	(60°-80°)	4206.0	29.8			G2/5000
FVH	(80°-90°)	84.0	0.6			G1/100
BL	(0°-30°)	372.3	2.6	B1/500		
BM	(30°-60°)	729.2	5.2	B1/1000		
BH	(60°-80°)	371.3	2.6	B1/500		G1/500
BVH	(80°-90°)	18.1	0.1			G1/100
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1865.4	1865.4	1865.4	1865.4	1865.4	1865.4	1865.4	1865.4	1865.4	1865.4	1865.4
2.5°	2178.8	2196.5	2205.4	2208.3	2140.3	2110.8	2081.2	2013.2	1998.4	1960.0	1909.7
5°	2563.1	2586.7	2580.8	2569.0	2486.2	2391.6	2314.7	2187.6	2166.9	2075.3	1963.0
7.5°	2941.5	2962.2	2956.3	2911.9	2820.3	2687.2	2560.1	2373.9	2344.3	2196.5	2016.2
10°	3257.8	3275.5	3272.6	3228.2	3118.8	2956.3	2802.5	2554.2	2518.7	2308.8	2060.5
12.5°	3517.9	3541.6	3538.6	3509.1	3411.5	3234.1	3059.7	2761.1	2716.8	2444.8	2122.6
15°	3721.9	3751.5	3751.5	3739.7	3671.7	3523.9	3325.8	2988.8	2935.6	2601.5	2199.5
17.5°	3846.1	3869.7	3890.4	3911.1	3863.8	3751.5	3571.2	3216.4	3160.2	2755.2	2279.3
20°	3911.1	3934.8	3949.6	3993.9	4002.8	3946.6	3804.7	3441.1	3382.0	2929.6	2370.9
22.5°	4017.5	4038.2	4041.2	4079.6	4097.4	4112.1	4023.5	3662.8	3615.5	3121.8	2474.4
25°	4194.9	4218.6	4209.7	4227.4	4230.4	4248.1	4239.3	3917.0	3869.7	3340.6	2598.5
27.5°	4422.6	4452.1	4446.2	4428.5	4401.9	4387.1	4425.5	4174.2	4129.9	3559.3	2725.7
30°	4667.9	4703.4	4694.5	4659.1	4588.1	4526.0	4579.2	4416.6	4375.3	3784.0	2867.6
32.5°	4916.2	4957.6	4954.7	4895.6	4774.3	4667.9	4747.7	4644.3	4614.7	4026.4	3021.3
35°	5078.8	5132.1	5126.1	5090.7	4934.0	4842.3	4939.9	4877.8	4857.1	4322.0	3243.0
37.5°	5341.9	5398.1	5347.9	5259.2	5078.8	5031.5	5149.8	5140.9	5126.1	4635.4	3476.6
40°	5980.5	6063.3	5930.2	5566.6	5271.0	5229.6	5398.1	5433.6	5418.8	4945.8	3686.4
42.5°	6648.6	6772.8	6565.8	6063.3	5619.8	5469.1	5670.1	5720.4	5702.6	5211.9	3875.6
45°	7053.6	7106.8	6899.9	6509.7	6237.7	5758.8	5959.8	6042.6	6027.8	5531.2	4118.1
47.5°	7384.7	7364.0	7127.5	6864.4	6914.7	6166.7	6288.0	6450.5	6438.7	5882.9	4384.1
50°	7455.7	7408.4	7313.8	7148.2	7281.3	6580.6	6633.8	6914.7	6902.9	6273.2	4653.1
52.5°	6956.1	6894.0	7151.2	7290.1	7245.8	6882.2	7015.2	7423.2	7417.2	6695.9	4910.3
55°	5708.5	5658.3	6350.0	7068.4	7207.3	7095.0	7437.9	7952.3	7984.8	7145.3	5143.9
57.5°	4490.5	4437.3	5117.3	6512.6	7065.4	7290.1	7931.6	8558.4	8599.7	7633.0	5365.6
60°	3580.0	3500.2	4020.5	5637.6	6799.4	7440.9	8407.6	9223.5	9229.4	8079.4	5501.6
62.5°	2433.0	2344.3	2920.8	4529.0	6353.0	7464.5	8774.2	9797.0	9820.7	8413.5	5525.2
65°	1478.1	1404.2	1794.4	3308.0	5693.7	7263.5	8780.1	10219.8	10240.5	8567.2	5383.3
67.5°	857.3	827.8	1025.8	2060.5	4599.9	6722.5	8410.5	10154.7	10193.2	8502.2	5061.1
70°	499.6	496.7	570.6	1019.9	3246.0	5649.4	7585.7	9607.8	9664.0	8162.2	4567.4
72.5°	366.6	372.5	402.1	546.9	1880.2	4067.8	6423.9	8508.1	8593.8	7497.1	3863.8
75°	289.7	292.7	319.3	372.5	987.4	2300.0	4812.8	6828.9	6896.9	6311.6	3018.3
77.5°	215.8	221.7	242.4	263.1	458.2	1055.4	2707.9	4206.7	4094.4	3464.7	1457.4
80°	156.7	171.5	180.3	189.2	242.4	408.0	813.0	1466.3	1454.5	1513.6	688.8
82.5°	100.5	112.3	121.2	127.1	144.9	195.1	242.4	328.1	354.8	588.3	274.9
85°	44.3	50.3	56.2	68.0	62.1	68.0	100.5	65.0	56.2	88.7	50.3
87.5°	0.0	0.0	8.9	14.8	11.8	5.9	17.7	11.8	8.9	8.9	8.9
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°	1865.4	1865.4	1865.4	1865.4	1865.4	1865.4	1865.4	1865.4	1865.4	1865.4	1865.4
2.5°	1883.1	1850.6	1782.6	1717.6	1679.2	1628.9	1584.6	1543.2	1540.2	1528.4	1507.7
5°	1906.8	1844.7	1717.6	1596.4	1504.7	1407.2	1324.4	1259.4	1235.7	1218.0	1194.3
7.5°	1930.4	1832.9	1643.7	1466.3	1321.4	1185.5	1087.9	999.2	972.6	949.0	934.2
10°	1939.3	1812.2	1557.9	1321.4	1132.2	987.4	883.9	818.9	795.2	783.4	774.5
12.5°	1965.9	1800.4	1478.1	1185.5	966.7	833.7	759.8	721.3	712.5	703.6	694.7
15°	2001.4	1800.4	1398.3	1052.4	836.6	730.2	685.9	659.2	653.3	650.4	644.5
17.5°	2039.8	1800.4	1321.4	940.1	742.0	662.2	629.7	614.9	611.9	609.0	606.0
20°	2093.0	1803.3	1238.7	842.5	674.0	611.9	585.3	567.6	564.6	561.7	561.7
22.5°	2146.2	1809.2	1158.9	768.6	629.7	573.5	541.0	523.3	517.3	517.3	517.3
25°	2214.2	1827.0	1084.9	706.5	591.3	538.0	496.7	481.9	478.9	478.9	476.0
27.5°	2294.1	1847.7	1019.9	659.2	552.8	496.7	455.3	440.5	434.6	434.6	431.6
30°	2379.8	1868.4	966.7	623.8	514.4	455.3	416.8	399.1	393.2	396.1	393.2
32.5°	2474.4	1897.9	925.3	600.1	478.9	419.8	384.3	363.6	360.7	360.7	357.7
35°	2634.0	1980.7	919.4	588.3	449.4	393.2	357.7	337.0	334.1	334.1	331.1
37.5°	2805.5	2075.3	946.0	582.4	425.7	369.5	337.0	316.3	313.4	313.4	313.4
40°	2950.3	2146.2	975.6	582.4	410.9	348.8	319.3	301.5	301.5	301.5	301.5
42.5°	3047.9	2152.2	969.7	582.4	399.1	334.1	307.5	289.7	289.7	292.7	289.7
45°	3192.8	2181.7	946.0	573.5	390.2	322.2	295.6	280.8	277.9	280.8	280.8
47.5°	3364.2	2234.9	922.4	538.0	387.3	310.4	286.8	269.0	266.1	269.0	266.1
50°	3526.8	2282.2	910.5	490.7	381.4	298.6	274.9	257.2	254.2	257.2	254.2
52.5°	3662.8	2302.9	889.8	458.2	366.6	286.8	263.1	245.4	239.5	242.4	242.4
55°	3772.2	2297.0	860.3	431.6	340.0	274.9	248.3	233.5	224.7	224.7	221.7
57.5°	3872.7	2300.0	833.7	405.0	310.4	257.2	236.5	218.8	206.9	204.0	201.0
60°	3911.1	2285.2	786.4	369.5	280.8	242.4	221.7	201.0	189.2	186.2	183.3
62.5°	3857.9	2232.0	724.3	307.5	254.2	224.7	206.9	186.2	174.4	171.5	168.5
65°	3707.1	2131.5	629.7	242.4	230.6	204.0	189.2	174.4	159.6	153.7	150.8
67.5°	3449.9	1986.6	511.4	195.1	204.0	186.2	177.4	159.6	141.9	136.0	133.0
70°	3083.4	1794.4	384.3	165.6	180.3	165.6	159.6	141.9	127.1	121.2	118.3
72.5°	2569.0	1484.0	269.0	141.9	156.7	144.9	138.9	127.1	112.3	103.5	103.5
75°	1942.3	1064.3	177.4	121.2	130.1	124.2	115.3	106.4	97.6	91.6	88.7
77.5°	836.6	413.9	109.4	91.6	106.4	103.5	91.6	85.7	82.8	76.9	76.9
80°	360.7	168.5	68.0	68.0	76.9	73.9	71.0	65.0	65.0	62.1	59.1
82.5°	133.0	68.0	41.4	50.3	56.2	50.3	50.3	50.3	50.3	47.3	47.3
85°	32.5	20.7	20.7	29.6	32.5	29.6	32.5	29.6	29.6	29.6	26.6
87.5°	8.9	8.9	11.8	11.8	11.8	11.8	11.8	8.9	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)