

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: LUMARK

Report Number: P960481

Luminaire Tested: **NAV-SB1C-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960481
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-827-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5236.7 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 54.4
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



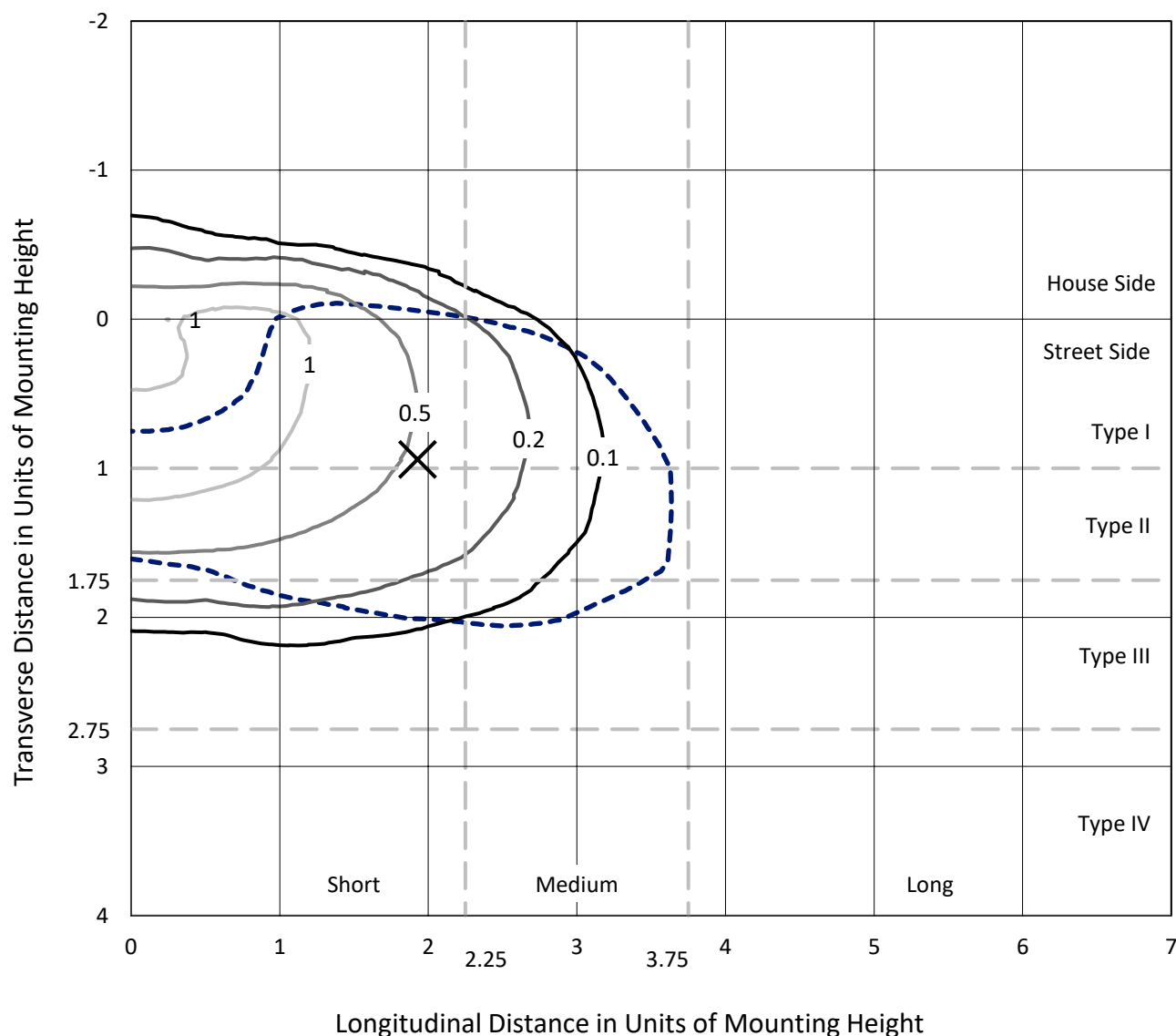
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



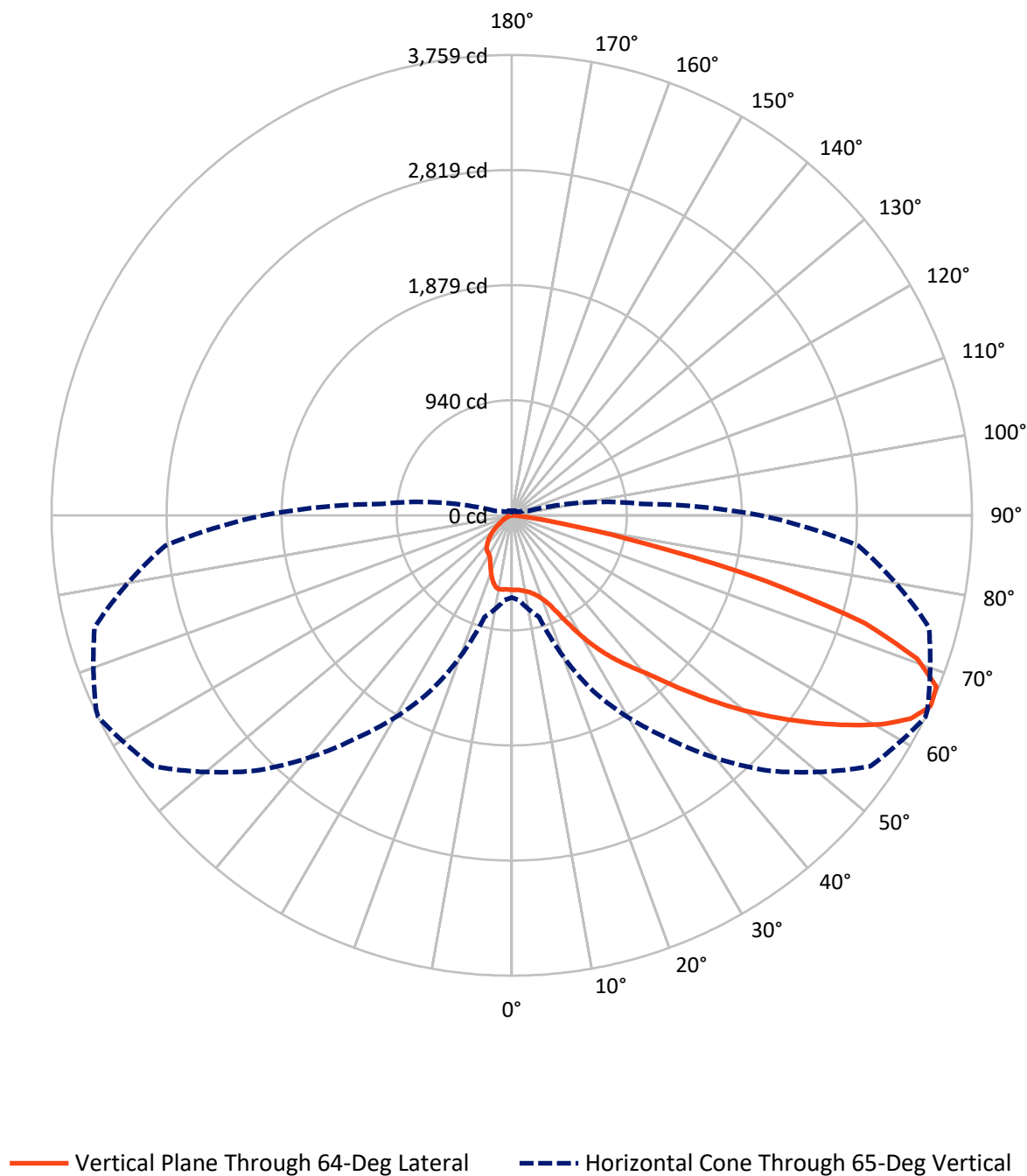
Based on 25 foot mounting height. Maximum calculated value = 1.5 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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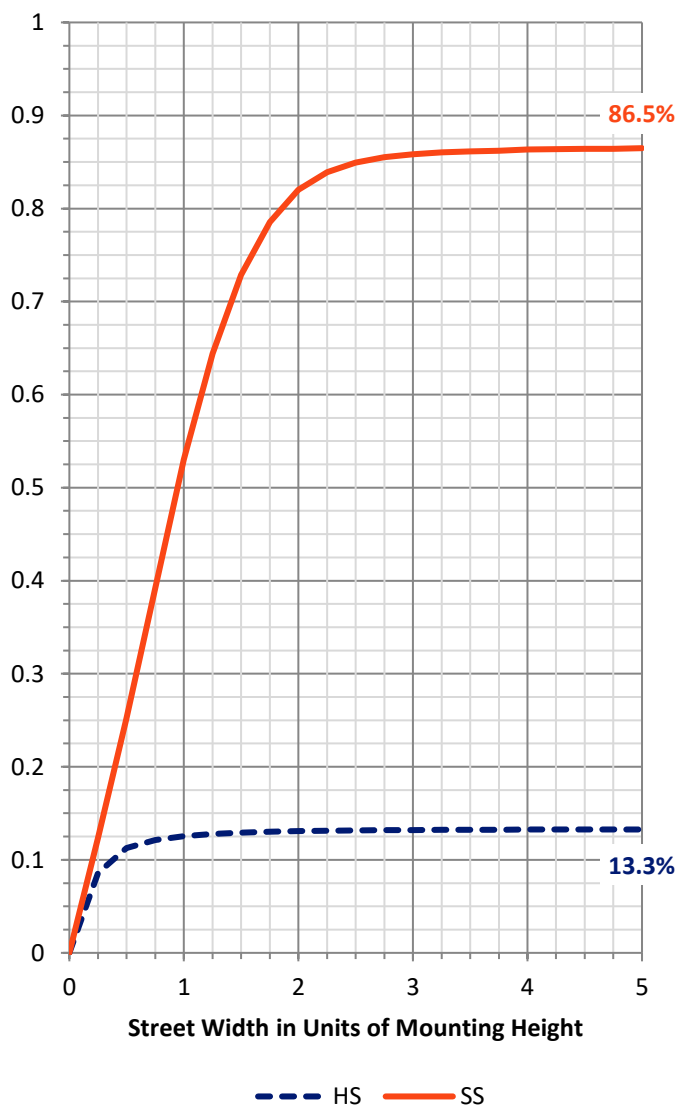
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	700.3	0.0	700.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	4536.4	0.0	4536.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	5236.7	0.0	5236.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	1.1
10°-20°	152.4	2.9
20°-30°	288.8	5.5
30°-40°	584.4	11.2
40°-50°	995.6	19.0
50°-60°	1353.9	25.9
60°-70°	1271.4	24.3
70°-80°	509.4	9.7
80°-90°	24.7	0.5
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°	5236.7	100.0
0°-180°	5236.7	100.0

Coefficient of Utilization



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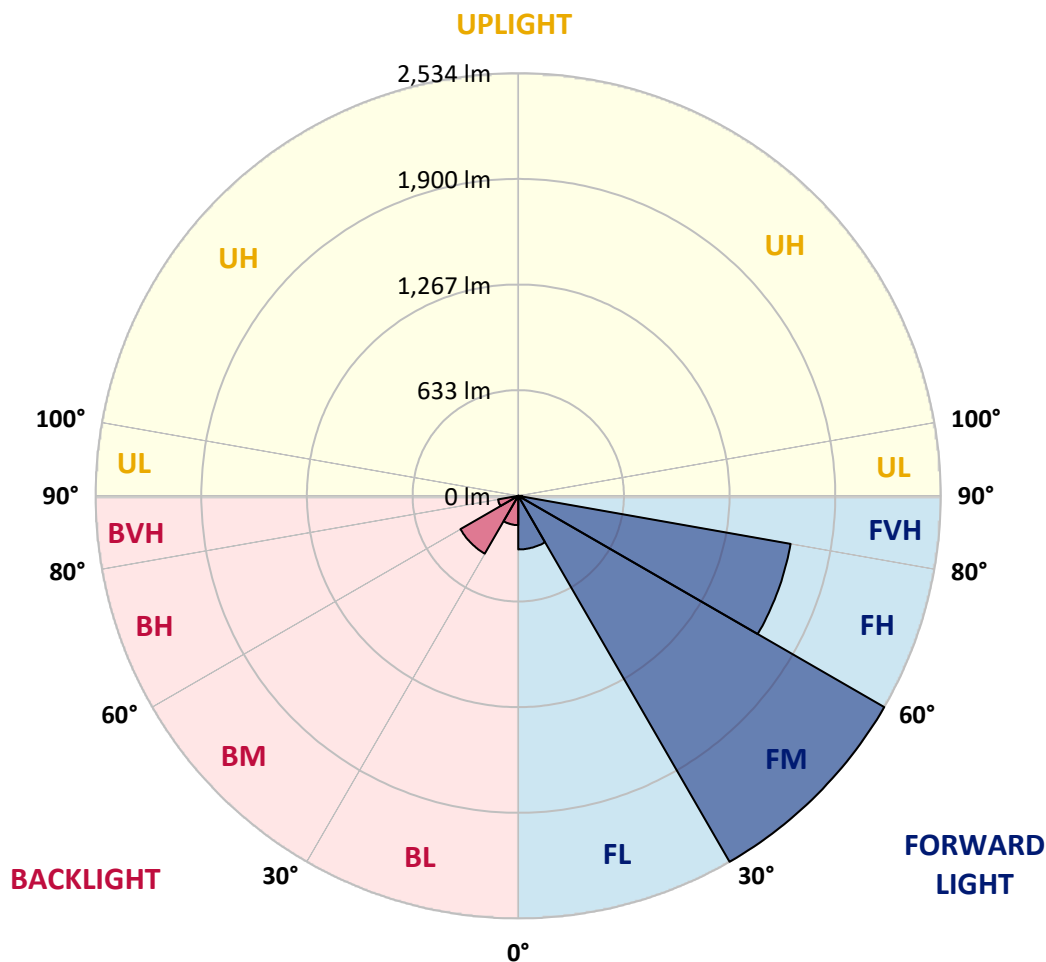
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	321.6	6.1			
FM	(30°-60°)	2533.5	48.4			
FH	(60°-80°)	1657.8	31.7			G1/1800
FVH	(80°-90°)	23.5	0.4			G1/100
BL	(0°-30°)	175.8	3.4	B1/500		
BM	(30°-60°)	400.4	7.6	B1/1000		
BH	(60°-80°)	122.9	2.3	B1/500		G1/500
BVH	(80°-90°)	1.2	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	609.1	609.1	609.1	609.1	609.1	609.1	609.1	609.1	609.1	609.1	609.1
2.5°	607.0	611.2	610.2	609.1	608.7	609.5	609.8	609.5	609.5	609.5	609.8
5°	595.4	598.9	598.9	601.4	604.9	609.1	612.2	612.9	613.7	614.7	614.4
7.5°	573.3	576.0	578.2	586.3	595.0	606.3	615.7	620.6	621.4	625.2	626.7
10°	558.2	561.7	565.2	573.6	586.3	603.1	619.3	631.2	632.9	642.1	646.3
12.5°	557.5	561.0	565.6	574.7	589.5	607.3	627.0	644.2	647.4	660.7	669.4
15°	564.9	569.1	573.3	584.6	600.3	622.1	643.2	664.5	667.7	686.6	696.2
17.5°	579.9	585.6	588.8	599.9	616.8	641.0	668.8	693.3	696.2	718.2	730.2
20°	609.8	616.4	617.5	626.7	643.2	669.1	702.1	732.7	736.2	761.5	774.8
22.5°	671.6	681.0	672.6	677.2	692.0	717.9	753.7	792.3	797.2	826.0	837.9
25°	780.4	793.8	771.9	764.2	770.6	797.6	842.6	891.3	897.0	920.1	926.1
27.5°	994.1	977.0	944.0	911.7	892.8	908.2	958.8	1019.2	1026.1	1048.6	1041.6
30°	1229.1	1213.9	1169.4	1097.8	1052.8	1050.3	1097.1	1164.5	1172.5	1193.9	1172.5
32.5°	1464.2	1449.9	1401.4	1313.3	1235.3	1196.8	1229.1	1303.8	1308.0	1321.7	1290.2
35°	1695.7	1680.9	1632.4	1542.2	1446.4	1358.6	1352.3	1436.5	1438.0	1452.3	1405.3
37.5°	1928.3	1916.0	1864.5	1776.0	1681.6	1560.5	1501.8	1562.2	1563.9	1578.0	1529.2
40°	2094.4	2099.7	2064.2	1995.8	1914.7	1782.3	1669.6	1696.0	1685.4	1709.0	1679.8
42.5°	2237.0	2247.5	2216.6	2182.2	2135.2	2018.5	1877.5	1872.9	1856.1	1868.7	1838.4
45°	2360.2	2369.0	2341.2	2333.1	2332.1	2250.3	2104.6	2077.2	2053.7	2051.2	2015.0
47.5°	2405.5	2422.3	2434.3	2461.2	2513.9	2479.5	2339.5	2296.9	2270.7	2251.3	2194.1
50°	2422.7	2440.5	2481.3	2559.9	2684.6	2699.2	2573.3	2525.5	2493.2	2458.2	2373.9
52.5°	2399.5	2431.4	2486.2	2618.6	2799.4	2875.5	2797.5	2755.8	2718.9	2661.7	2536.8
55°	2262.9	2294.9	2406.8	2617.8	2856.6	2999.0	3009.6	2991.1	2949.5	2859.3	2668.4
57.5°	1975.1	2022.4	2199.8	2528.7	2855.5	3105.4	3217.5	3230.8	3184.5	3055.2	2771.9
60°	1576.2	1640.5	1856.8	2331.1	2767.4	3163.0	3399.6	3466.3	3417.2	3248.3	2855.9
62.5°	1099.8	1174.2	1378.9	2021.4	2565.9	3121.6	3532.7	3655.9	3618.7	3421.0	2888.1
65°	670.9	694.7	859.8	1590.6	2223.2	2948.2	3573.8	3758.5	3746.2	3526.7	2840.4
67.5°	446.9	466.9	514.3	1090.7	1725.8	2601.7	3475.5	3740.5	3744.0	3509.5	2665.6
70°	269.3	286.5	317.3	634.4	1118.5	2059.3	3171.1	3512.4	3532.7	3279.6	2334.2
72.5°	110.9	122.5	150.6	287.5	579.2	1307.0	2525.2	3015.5	3063.0	2757.6	1791.5
75°	62.8	68.8	88.5	144.3	251.3	609.1	1529.6	2140.7	2210.6	1900.7	1077.8
77.5°	41.8	44.6	57.2	93.4	141.4	207.9	653.6	1115.3	1248.8	1038.1	466.6
80°	28.1	30.5	39.4	62.5	91.9	89.2	208.2	413.2	508.3	356.7	113.8
82.5°	19.0	19.3	28.1	41.1	58.3	43.2	61.4	128.5	161.4	103.2	43.2
85°	10.9	10.6	20.7	23.9	25.9	17.9	18.7	38.6	50.5	43.6	24.6
87.5°	1.4	2.2	8.1	6.4	3.5	3.9	3.9	6.7	9.8	10.6	5.2
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°	609.1	609.1	609.1	609.1	609.1	609.1	609.1	609.1	609.1	609.1	609.1
2.5°	609.8	609.5	608.3	607.3	604.9	603.4	604.1	603.4	603.1	603.4	604.9
5°	614.4	613.3	610.5	607.0	602.1	596.1	592.2	586.6	581.4	578.2	578.9
7.5°	626.7	625.6	621.8	611.9	596.1	571.1	548.4	528.4	513.2	504.5	504.8
10°	646.3	644.5	638.6	616.8	575.4	521.0	475.7	438.1	413.6	402.0	400.9
12.5°	669.4	667.4	656.8	612.2	536.1	451.1	388.6	346.9	324.0	313.9	312.8
15°	696.9	694.0	673.3	590.5	478.9	373.9	316.6	285.4	270.7	261.6	261.9
17.5°	730.9	726.0	685.6	557.8	416.7	314.9	272.4	248.9	236.0	227.1	226.4
20°	775.1	767.1	695.5	518.9	359.5	277.7	242.6	222.9	213.1	205.4	204.0
22.5°	836.9	825.3	707.4	476.7	319.1	252.0	220.5	206.0	198.0	189.2	187.8
25°	913.5	899.7	722.1	437.8	291.4	229.9	204.3	192.4	182.9	172.7	171.7
27.5°	1020.5	996.0	739.6	405.8	267.5	210.9	189.5	176.2	165.3	156.9	155.2
30°	1139.9	1099.5	755.1	386.5	245.7	193.4	170.3	156.9	146.8	140.7	139.7
32.5°	1253.0	1198.1	765.3	378.1	226.1	173.4	149.2	134.8	127.1	125.4	126.4
35°	1359.7	1287.3	764.2	370.0	208.5	153.4	128.5	113.8	107.7	108.9	108.9
37.5°	1482.6	1382.4	756.9	357.4	194.1	135.2	110.6	97.6	92.4	92.7	94.1
40°	1625.4	1492.3	752.3	333.5	178.4	118.3	95.8	85.3	81.5	80.1	79.6
42.5°	1777.8	1598.7	753.1	306.5	158.7	103.2	85.7	76.9	73.4	72.4	72.0
45°	1930.8	1700.2	754.1	278.4	138.0	91.6	78.3	70.9	68.8	67.4	67.4
47.5°	2074.7	1786.6	734.4	248.2	117.6	82.8	72.4	67.4	65.6	63.9	63.9
50°	2208.9	1844.1	687.1	213.1	101.5	75.8	67.8	64.3	62.5	60.8	60.8
52.5°	2313.1	1853.2	608.7	176.9	90.2	70.5	65.0	61.8	59.7	57.9	57.6
55°	2359.4	1796.0	497.4	143.2	81.5	66.0	62.1	58.9	56.5	54.7	54.4
57.5°	2347.6	1675.6	388.0	115.1	73.0	61.4	58.6	56.5	53.7	50.9	50.5
60°	2288.9	1514.4	292.4	95.8	65.3	56.5	54.7	53.0	49.1	44.9	44.3
62.5°	2187.5	1311.9	208.5	79.3	56.9	50.9	50.2	48.8	43.2	35.5	34.7
65°	2032.3	1065.8	140.4	66.0	48.8	44.6	44.9	42.4	35.1	26.3	25.6
67.5°	1805.5	779.3	89.9	54.0	40.7	37.2	37.5	36.2	29.8	22.4	21.4
70°	1516.6	516.1	58.6	41.1	32.7	28.8	30.9	31.3	25.3	18.2	17.5
72.5°	1111.8	304.7	41.1	30.5	23.9	20.0	25.3	25.9	20.4	13.7	13.0
75°	633.7	144.6	30.9	22.1	14.8	14.0	19.7	19.7	14.0	9.1	8.4
77.5°	266.1	60.4	21.7	14.3	8.4	8.1	13.3	12.3	7.0	4.2	4.2
80°	76.9	27.1	11.6	7.0	3.5	3.2	5.2	3.9	1.7	0.7	0.7
82.5°	30.2	11.9	4.6	2.8	1.4	1.4	0.7	0.0	0.0	0.0	0.0
85°	17.9	4.9	2.2	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	1.0	0.7	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)